


Math Series

Riddle-Me-Worksheets

Fourth Grade: Pack 2

DATE: _____

about the plant-eating



Directions: Solve the following problems and match your answers to the answers in the Legend. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.
Note: The problem numbers match the numbered rectangles.

1 $4\frac{1}{3}$ 2 $6\frac{2}{4}$ 3 $3\frac{1}{10}$ 4 4 5 $3\frac{1}{10}$ 6 $5\frac{3}{4}$ 7 $4\frac{2}{3}$ 8 5 9 $3\frac{3}{5}$ 10 $5\frac{3}{10}$ 11 $6\frac{1}{4}$ 12 $5\frac{3}{4}$

Use the visual model to solve the problem:

1 $1\frac{2}{5} + 2\frac{1}{5} =$

2 $2\frac{7}{10} + 2\frac{6}{10} =$

3 $2\frac{3}{5} + 2\frac{2}{5} =$

4 $4\frac{3}{4} + 1\frac{2}{4} =$

5 $2\frac{1}{3} + \frac{2}{3} =$

6 $1\frac{2}{10} + 1\frac{9}{10} =$

7 $2\frac{3}{10} =$

8 $2\frac{2}{5} + 3\frac{3}{5} =$

9 $7\frac{2}{3} + \frac{2}{3} =$

10 $1\frac{2}{5} + 4\frac{4}{5} =$

Legend:

1 2 3 4 5 6 7 8 9 10

11 12

13 14 15 16 17 18 19 20

21 22 23 24 25 26 27 28 29 30

31 32 33 34 35 36 37 38 39 40

41 42 43 44 45 46 47 48 49 50

51 52 53 54 55 56 57 58 59 60

61 62 63 64 65 66 67 68 69 70

71 72 73 74 75 76 77 78 79 80

81 82 83 84 85 86 87 88 89 90

91 92 93 94 95 96 97 98 99 100

101 102 103 104 105 106 107 108 109 110

111 112 113 114 115 116 117 118 119 120

121 122 123 124 125 126 127 128 129 130

131 132 133 134 135 136 137 138 139 140

141 142 143 144 145 146 147 148 149 150

151 152 153 154 155 156 157 158 159 160

161 162 163 164 165 166 167 168 169 170

171 172 173 174 175 176 177 178 179 180

181 182 183 184 185 186 187 188 189 190

191 192 193 194 195 196 197 198 199 200

201 202 203 204 205 206 207 208 209 210

211 212 213 214 215 216 217 218 219 220

221 222 223 224 225 226 227 228 229 230

231 232 233 234 235 236 237 238 239 240

241 242 243 244 245 246 247 248 249 250

251 252 253 254 255 256 257 258 259 260

261 262 263 264 265 266 267 268 269 270

271 272 273 274 275 276 277 278 279 280

281 282 283 284 285 286 287 288 289 290

291 292 293 294 295 296 297 298 299 300

301 302 303 304 305 306 307 308 309 310

311 312 313 314 315 316 317 318 319 320

321 322 323 324 325 326 327 328 329 330

331 332 333 334 335 336 337 338 339 340

341 342 343 344 345 346 347 348 349 350

351 352 353 354 355 356 357 358 359 360

361 362 363 364 365 366 367 368 369 370

371 372 373 374 375 376 377 378 379 380

381 382 383 384 385 386 387 388 389 390

391 392 393 394 395 396 397 398 399 400

401 402 403 404 405 406 407 408 409 410

411 412 413 414 415 416 417 418 419 420

421 422 423 424 425 426 427 428 429 430

431 432 433 434 435 436 437 438 439 440

441 442 443 444 445 446 447 448 449 450

451 452 453 454 455 456 457 458 459 460

461 462 463 464 465 466 467 468 469 470

471 472 473 474 475 476 477 478 479 480

481 482 483 484 485 486 487 488 489 490

491 492 493 494 495 496 497 498 499 500

501 502 503 504 505 506 507 508 509 510

511 512 513 514 515 516 517 518 519 520

521 522 523 524 525 526 527 528 529 530

531 532 533 534 535 536 537 538 539 540

541 542 543 544 545 546 547 548 549 550

551 552 553 554 555 556 557 558 559 560

561 562 563 564 565 566 567 568 569 570

571 572 573 574 575 576 577 578 579 580

581 582 583 584 585 586 587 588 589 590

591 592 593 594 595 596 597 598 599 600

601 602 603 604 605 606 607 608 609 610

611 612 613 614 615 616 617 618 619 620

621 622 623 624 625 626 627 628 629 630

631 632 633 634 635 636 637 638 639 640

641 642 643 644 645 646 647 648 649 650

651 652 653 654 655 656 657 658 659 660

661 662 663 664 665 666 667 668 669 670

671 672 673 674 675 676 677 678 679 680

681 682 683 684 685 686 687 688 689 690

691 692 693 694 695 696 697 698 699 700

701 702 703 704 705 706 707 708 709 710

711 712 713 714 715 716 717 718 719 720

721 722 723 724 725 726 727 728 729 730

731 732 733 734 735 736 737 738 739 740

741 742 743 744 745 746 747 748 749 750

751 752 753 754 755 756 757 758 759 760

761 762 763 764 765 766 767 768 769 770

771 772 773 774 775 776 777 778 779 780

781 782 783 784 785 786 787 788 789 790

791 792 793 794 795 796 797 798 799 800

801 802 803 804 805 806 807 808 809 810

811 812 813 814 815 816 817 818 819 820

821 822 823 824 825 826 827 828 829 830

831 832 833 834 835 836 837 838 839 840

841 842 843 844 845 846 847 848 849 850

851 852 853 854 855 856 857 858 859 860

861 862 863 864 865 866 867 868 869 870

871 872 873 874 875 876 877 878 879 880

881 882 883 884 885 886 887 888 889 890

891 892 893 894 895 896 897 898 899 900

901 902 903 904 905 906 907 908 909 910

911 912 913 914 915 916 917 918 919 920

921 922 923 924 925 926 927 928 929 930

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951 952 953 954 955 956 957 958 959 960

961 962 963 964 965 966 967 968 969 970

971 972 973 974 975 976 977 978 979 980

981 982 983 984 985 986 987 988 989 990

991 992 993 994 995 996 997 998 999 1000

1001 1002 1003 1004 1005 1006 1007 1008 1009 1010

1011 1012 1013 1014 1015 1016 1017 1018 1019 1020

1021 1022 1023 1024 1025 1026 1027 1028 1029 1030

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1081 1082 1083 1084 1085 1086 1087 1088 1089 1090

1091 1092 1093 1094 1095 1096 1097 1098 1099 1100

1101 1102 1103 1104 1105 1106 1107 1108 1109 1110

1111 1112 1113 1114 1115 1116 1117 1118 1119 1120

1121 1122 1123 1124 1125 1126 1127 1128 1129 1130

1131 1132 1133 1134 1135 1136 1137 1138 1139 1140

1141 1142 1143 1144 1145 1146 1147 1148 1149 1150

1151 1152 1153 1154 1155 1156 1157 1158 1159 1160

1161 1162 1163 1164 1165 1166 1167 1168 1169 1170

1171 1172 1173 1174 1175 1176 1177 1178 1179 1180

1181 1182 1183 1184 1185 1186 1187 1188 1189 1190

1191 1192 1193 1194 1195 1196 1197 1198 1199 1200

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1901 1902 1903 1904 1905 1906 1907 1908 1909 1910

1911 1912 1913 1914 1915 1916 1917 1918 1919 1920

1921 1922 1923 1924 1925 1926 1927 1928 1929 1930

1931 1932 1933 1934 1935 1936 1937 1938 1939 1940

1941 1942 1943 1944 1945 1946 1947 1948 1949 1950

1951 1952 1953 1954 1955 1956 1957 1958 1959 1960

1961 1962 1963 1964 1965 1966 1967 1968 1969 1970

1971 1972 1973 1974 1975 1976 1977 1978 1979 1980

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2121 2122 2123 2124 2125 2126 2127 2128 2129 2130

2131 2132 2133 2134 2135 2136 2137 2138 2139 2140

2141 2142 2143 2144 2145 2146 2147 2148 2149 2150

2151 2152 2153 2154 2155 2156 2157 2158 2159 2160

2161 2162 2163 2164 2165 2166 2167 2168 2169 2170

2171 2172 2173 2174 2175 2176 2177 2178 2179 2180

2181 2182 2183 2184 2185 2186 2187 2188 2189 2190

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2241 2242 2243 2244 2245 2246 2247 2248 2249 2250

2251 2252 2253 2254 2255 2256 2257 2258 2259 2260

2261 2262 2263 2264 2265 2266 2267 2268 2269 2270

2271 2272 2273 2274 2275 2276 2277 2278 2279 2280

2281 2282 2283 2284 2285 2286 2287 2288 2289 2290

2291 2292 2293 2294 2295 2296 2297 2298 2299 2300

2301 2

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NOTE TO TEACHERS:

As students complete these worksheets, they may be able to solve the riddle before finishing the problems and thus may be able to get the correct answer without completing the work. To avoid this, we highly recommend that you require students to complete all problems and show all their work to prove mastery and receive full credit for the assignment.

Math Series

Riddle-Me-Worksheets

Fun math worksheets with riddles to keep kids motivated.

Key Features



Self checking



Common Core aligned



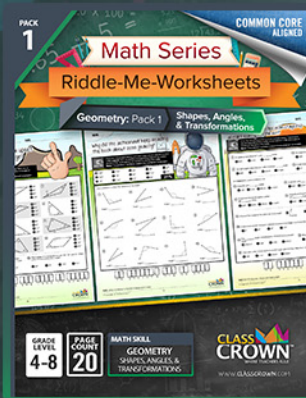
Problem solving motivation



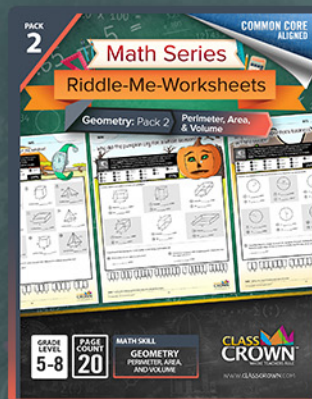
High quality design

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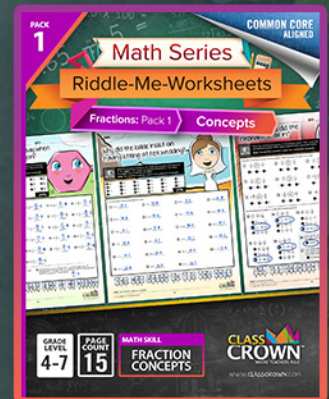
Geometry: Pack 1



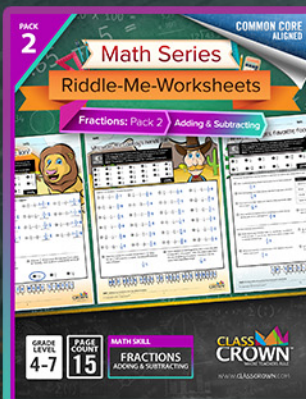
Geometry: Pack 2



Pre-Algebra: Pack 1



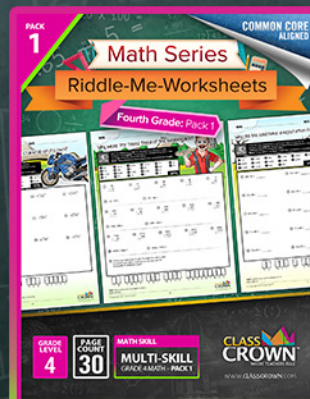
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Fractions: Pack 2



Fractions: Pack 3



4th Grade: Pack 1

**COLLECT
THEM ALL!**

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NAME: _____

DATE: _____

What did the bird say to the parrot who liked to play practical jokes?



DIRECTIONS

Solve the following problems and match your answers to the answers in the **Legend**. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.

Note: The problem numbers match the numbered rectangles.

N 20

R 5

A 42

Y 2

G 16

A 40

C 56

O 14

A 8

H 3

E 90

A 44

T 30

M 25

U 60

T 70

T 28

P 27

L 4

LEGEND



Find the missing number that makes an equivalent fraction:

① $\frac{1}{5} = \frac{?}{40}$ _____

② $\frac{7}{8} = \frac{49}{?}$ _____

③ $\frac{1}{3} = \frac{?}{9}$ _____

④ $\frac{3}{4} = \frac{30}{?}$ _____

⑤ $\frac{1}{2} = \frac{7}{?}$ _____

⑥ $\frac{3}{7} = \frac{12}{?}$ _____

⑦ $\frac{1}{8} = \frac{?}{32}$ _____

⑧ $\frac{9}{10} = \frac{81}{?}$ _____

⑨ $\frac{5}{12} = \frac{?}{144}$ _____

⑩ $\frac{5}{6} = \frac{25}{?}$ _____

⑪ $\frac{3}{10} = \frac{6}{?}$ _____

⑫ $\frac{4}{9} = \frac{?}{36}$ _____

⑬ $\frac{6}{7} = \frac{36}{?}$ _____

⑭ $\frac{7}{9} = \frac{21}{?}$ _____

⑮ $\frac{7}{10} = \frac{?}{100}$ _____

⑯ $\frac{1}{9} = \frac{?}{18}$ _____

⑰ $\frac{3}{11} = \frac{12}{?}$ _____

⑱ $\frac{4}{5} = \frac{20}{?}$ _____

--	--	--	--	--	--

15 5 9 2 17 11

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14 7 1 16

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10 3 13 6

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12 4 18 8

Skill: Finding equivalent fractions

CCSS: 4.NF.A.1

NAME: _____

DATE: _____

Why did the pencil never do well on tests?



Solve the following problems and match your answers to the answers in the **Legend**. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.
Note: The problem numbers match the numbered rectangles.

U $\frac{4}{12}$

I $\frac{8}{28}$

W $\frac{30}{60}$

S $\frac{3}{6}$

A $\frac{3}{30}$

D $\frac{12}{20}$

T $\frac{6}{15}$

E $\frac{4}{16}$

L $\frac{15}{20}$

M $\frac{5}{8}$

H $\frac{8}{18}$

LEGEND

Find the missing fraction that completes the pattern:

① $\frac{1}{2} = \frac{2}{4} = \frac{?}{?} = \frac{4}{8} = \frac{5}{10}$ _____

② $\frac{2}{7} = \frac{4}{14} = \frac{6}{21} = \frac{?}{?} = \frac{10}{35} = \frac{12}{42}$ _____

③ $\frac{4}{9} = \frac{?}{?} = \frac{12}{27} = \frac{16}{36} = \frac{20}{45} = \frac{24}{54}$ _____

④ $\frac{1}{3} = \frac{2}{6} = \frac{3}{9} = \frac{?}{?} = \frac{5}{15} = \frac{6}{18}$ _____

⑤ $\frac{5}{10} = \frac{10}{20} = \frac{15}{30} = \frac{20}{40} = \frac{25}{50} = \frac{?}{?}$ _____

⑥ $\frac{3}{5} = \frac{6}{10} = \frac{9}{15} = \frac{?}{?} = \frac{15}{25} = \frac{18}{30}$ _____

⑦ $\frac{1}{4} = \frac{2}{8} = \frac{3}{12} = \frac{?}{?} = \frac{5}{20} = \frac{6}{24}$ _____

⑧ $\frac{1}{10} = \frac{2}{20} = \frac{?}{?} = \frac{4}{40} = \frac{5}{50} = \frac{6}{60}$ _____

⑨ $\frac{2}{5} = \frac{4}{10} = \frac{?}{?} = \frac{8}{20} = \frac{10}{25} = \frac{12}{30}$ _____

⑩ $\frac{3}{4} = \frac{6}{8} = \frac{9}{12} = \frac{12}{16} = \frac{?}{?} = \frac{18}{24}$ _____

3	7

5	8	1

8

10	2	9	9	10	7

6	4	10	10

NAME: _____

DATE: _____

What do you call people who are afraid of Santa?



DIRECTIONS

Solve the following problems and match your answers to the answers in the **Legend**. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.

Note: The problem numbers match the numbered rectangles.

C $\frac{5}{6}$

T $\frac{9}{10}$

R $\frac{5}{9}$

B $\frac{3}{4}$

U $\frac{5}{8}$

S $\frac{3}{8}$

O $\frac{1}{8}$

L $\frac{2}{3}$

O $\frac{5}{7}$

I $\frac{1}{3}$

H $\frac{1}{2}$

C $\frac{1}{6}$

P $\frac{1}{10}$

A $\frac{1}{4}$

LEGEND

For each fraction, simplify as much as possible:

① $\frac{15}{27}$ _____

② $\frac{14}{56}$ _____

③ $\frac{9}{18}$ _____

④ $\frac{21}{28}$ _____

⑤ $\frac{30}{80}$ _____

⑥ $\frac{5}{40}$ _____

⑦ $\frac{6}{18}$ _____

⑧ $\frac{16}{24}$ _____

⑨ $\frac{40}{48}$ _____

⑩ $\frac{40}{64}$ _____

⑪ $\frac{7}{42}$ _____

⑫ $\frac{15}{21}$ _____

⑬ $\frac{36}{40}$ _____

⑭ $\frac{7}{70}$ _____

					-									
11	8	2	10	5		13	1	6	14	3	12	4	7	9

Skill: Simplifying fractions

CCSS: 4.NF.A.1

NAME: _____

DATE: _____

On what mountain do people never sleep?



DIRECTIONS

Solve the following problems in the sections below. Then record the corresponding letter of the correct answer in the rectangles at the bottom to answer the riddle.

Note: The problem numbers match the numbered rectangles.

Choose the symbol that correctly compares the fractions:

① $\frac{2}{5}$ ○ $\frac{10}{12}$

U < O > P =

② $\frac{9}{12}$ ○ $\frac{3}{4}$

N < G > S =

③ $\frac{2}{3}$ ○ $\frac{1}{5}$

P < N > S =

④ $\frac{5}{12}$ ○ $\frac{5}{8}$

O < E > A =

⑤ $\frac{2}{3}$ ○ $\frac{4}{5}$

V < X > L =

⑥ $\frac{1}{2}$ ○ $\frac{5}{12}$

S < M > R =

⑦ $\frac{3}{4}$ ○ $\frac{12}{16}$

K < V > T =

⑧ $\frac{3}{10}$ ○ $\frac{3}{8}$

R < L > M =

⑨ $\frac{7}{8}$ ○ $\frac{8}{9}$

E < O > U =

6	4	1	3	7

					-				
3	9	5	9	8		8	9	2	7

NAME: _____

DATE: _____

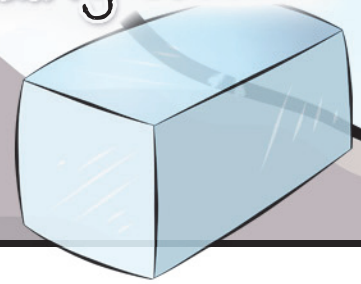
Why can't you tell a joke while standing on ice?



DIRECTIONS

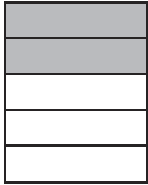
Solve the following problems in the sections below. Then record the corresponding letter of the correct answer in the rectangles at the bottom to answer the riddle.

Note: The problem numbers match the numbered rectangles.

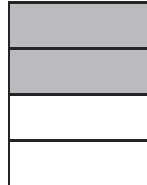


For problems 1–6, determine if the shaded region is less, more, or equal to half:

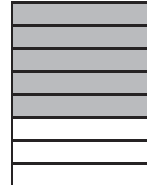
①

**G** <**L** >**R** =

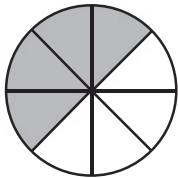
②

**H** <**V** >**S** =

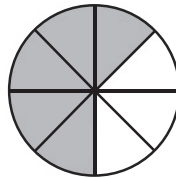
③

**L** <**R** >**B** =

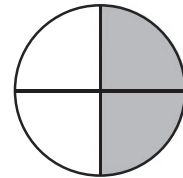
④

**P** <**G** >**K** =

⑤

**J** <**B** >**M** =

⑥

**T** <**F** >**P** =

For problems 7–14, determine if the fraction is less, more, or equal to half:

⑦

$$\frac{5}{7}$$

L < **M** > **N** =

⑧

$$\frac{3}{6}$$

F < **R** > **H** =

⑨

$$\frac{4}{9}$$

E < **O** > **A** =

⑩

$$\frac{6}{11}$$

E < **A** > **I** =

⑪

$$\frac{5}{10}$$

U < **O** > **I** =

⑫

$$\frac{3}{4}$$

S < **T** > **F** =

⑬

$\frac{2}{5}$ of Mr. Finn's class got sick with the flu. This is _____ half of Mr. Finn's class.

S more than **U** less than **I** equal to

⑭

Ten out of twenty dishes broke while being shipped overseas. _____ half of the dishes were broken.

F More than **L** Less than **C** Exactly

5	9	14	10	13	2	9
---	---	----	----	----	---	---

11	12
----	----

7	11	1	8	12
---	----	---	---	----

14	3	10	14	4
----	---	----	----	---

13	6
----	---

Skill: Comparing fractions to one half

CCSS: 4.NF.A.2

NAME: _____

DATE: _____

What do you call a piece of bread that gets good grades?

**DIRECTIONS**

Solve the following problems and match your answers to the answers in the **Legend**. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.

Note: The problem numbers match the numbered rectangles.

O $\frac{2}{8} + \frac{3}{8} = \frac{5}{8}$

A $\frac{1}{2} + \frac{1}{2} = 1$

R $\frac{3}{8} + \frac{3}{8} = \frac{6}{8}$

O $\frac{3}{10} + \frac{1}{10} = \frac{4}{10}$

R $\frac{1}{3} + \frac{2}{3} = 1$

H $\frac{5}{8} + \frac{2}{8} = \frac{7}{8}$

L $\frac{2}{5} + \frac{2}{5} = \frac{4}{5}$

N $\frac{2}{6} + \frac{2}{6} = \frac{4}{6}$

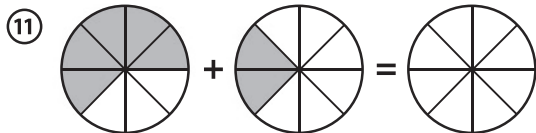
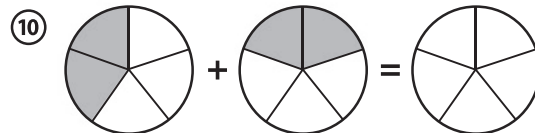
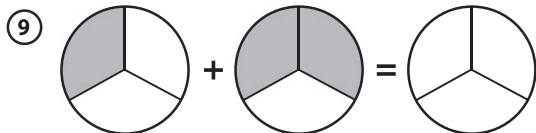
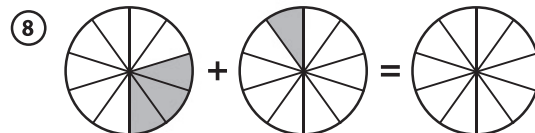
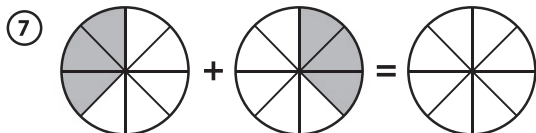
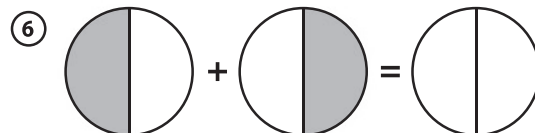
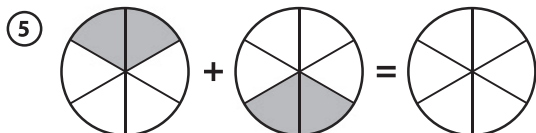
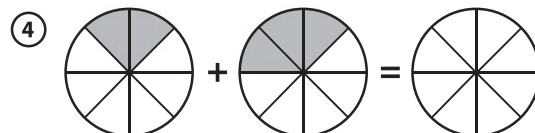
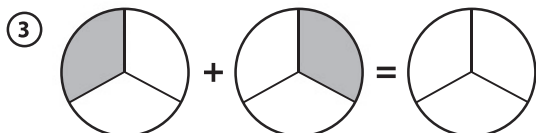
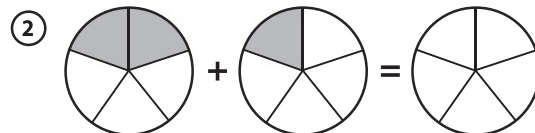
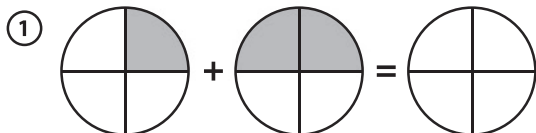
L $\frac{2}{5} + \frac{1}{5} = \frac{3}{5}$

O $\frac{1}{4} + \frac{2}{4} = \frac{3}{4}$

N $\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$

LEGEND

Shade in the fraction to solve each problem:



--	--

6 3

--	--	--	--	--

11 8 5 1 9

--	--	--	--

7 4 2 10

Skill: Adding fractions – visual

CCSS: 4.NF.B.3.B

NAME: _____

DATE: _____

What do you call a cow with a twitch?



Solve the following problems and match your answers to the answers in the **Legend**. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.

Note: The problem numbers match the numbered rectangles.



Add the fractions, then match your answer to the correct picture from the legend:

① $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} =$ _____

② $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} =$ _____

③ $\frac{1}{5} + \frac{1}{5} =$ _____

④ $\frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} =$ _____

⑤ $\frac{1}{3} + \frac{1}{3} =$ _____

⑥ $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} =$ _____

⑦ $\frac{1}{10} + \frac{1}{10} =$ _____

⑧ $\frac{1}{6} + \frac{1}{6} =$ _____

⑨ $\frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5} =$ _____

LEGEND



6	4	9	2

7	1	5	8	3

NAME: _____

DATE: _____

Why did the banker quit his job?



DIRECTIONS

Solve the following problems and match your answers to the answers in the **Legend**. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.

Note: The problem numbers match the numbered rectangles.

Add the fractions, then match your answer to the correct picture from the legend:

① $\frac{5}{10} + \frac{4}{10} =$ _____

② $\frac{1}{4} + \frac{3}{4} =$ _____

③ $\frac{3}{6} + \frac{1}{6} =$ _____

④ $\frac{2}{3} + \frac{2}{3} =$ _____

⑤ $\frac{1}{5} + \frac{3}{5} =$ _____

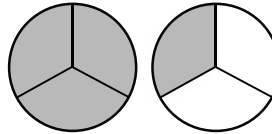
⑥ $\frac{3}{4} + \frac{3}{4} =$ _____

⑦ $\frac{6}{10} + \frac{5}{10} =$ _____

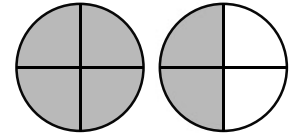
⑧ $\frac{5}{6} + \frac{5}{6} =$ _____

⑨ $\frac{2}{5} + \frac{3}{5} =$ _____

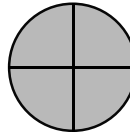
H



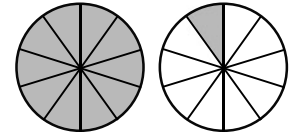
I



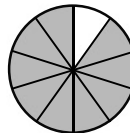
N



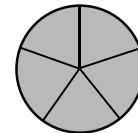
S



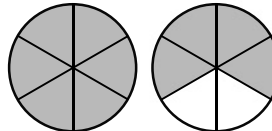
O



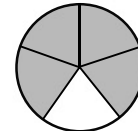
E



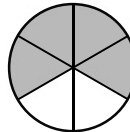
T



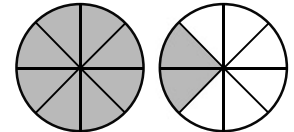
L



R



M



LEGEND

--	--

4 9

--	--	--	--

5 1 7 8

--	--	--	--	--	--	--	--

6 2 8 9 3 9 7 8

Skill: Adding fractions – numeric & visual

CCSS: 4.NF.B.3.B

NAME: _____

DATE: _____

Why was the owl unpopular with the other birds?

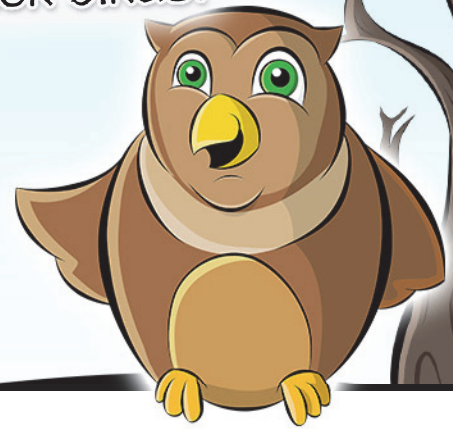


Solve the following problems and match your answers to the answers in the **Legend**. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.

Note: The problem numbers match the numbered rectangles.

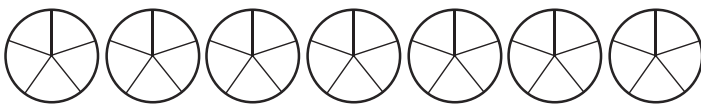
- | | | | | | |
|-------------------------|-------------------------|--------------------------|--------------------------|-------------------------|-------------------------|
| I $4\frac{1}{3}$ | O $6\frac{2}{4}$ | W $3\frac{1}{10}$ | N 4 | A 3 | L $5\frac{3}{4}$ |
| H $4\frac{2}{3}$ | K 5 | T $3\frac{3}{5}$ | S $5\frac{3}{10}$ | E $6\frac{1}{4}$ | |

LEGEND →



Use the visual model to solve the problem:

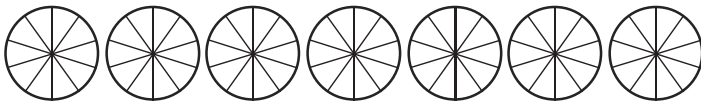
① $1\frac{2}{5} + 2\frac{1}{5} =$



② $2\frac{1}{3} + 2\frac{1}{3} =$



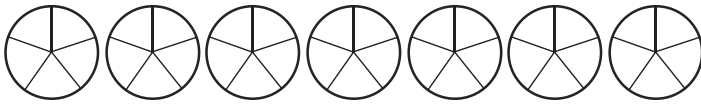
③ $2\frac{7}{10} + 2\frac{6}{10} =$



④ $3\frac{2}{4} + 2\frac{1}{4} =$



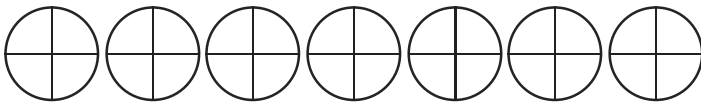
⑤ $2\frac{3}{5} + 2\frac{2}{5} =$



⑥ $1\frac{2}{3} + 2\frac{2}{3} =$



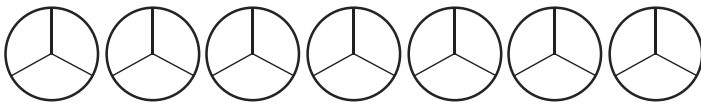
⑦ $4\frac{3}{4} + 1\frac{2}{4} =$



⑧ $1\frac{3}{10} + 2\frac{7}{10} =$



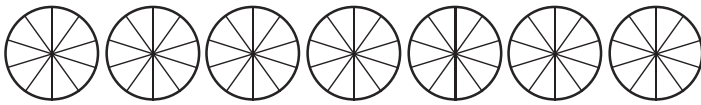
⑨ $2\frac{1}{3} + \frac{2}{3} =$



⑩ $3\frac{3}{4} + 2\frac{3}{4} =$



⑪ $1\frac{2}{10} + 1\frac{9}{10} =$



2	7	11	9	3	9	5	8	10	11	6	1	10	11	4				

Skill: Adding mixed numbers – visual

CCSS: 4.NF.B.3.C

NAME: _____

DATE: _____

What did one piece of gum say to the other when they broke up?



DIRECTIONS

Solve the following problems and match your answers to the answers in the **Legend**. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.

Note: The problem numbers match the numbered rectangles.

N $\frac{22}{7}$

I 7

S $\frac{20}{3}$

B $\frac{59}{6}$

O $\frac{43}{7}$

U 6

G $\frac{79}{10}$

L $\frac{23}{7}$

T 27

E $\frac{19}{5}$

W $\frac{44}{3}$

A $\frac{47}{5}$

M 25

LEGEND



Add or subtract. Leave your answer as either an improper fraction or a whole number:

① $\frac{32}{5} + \frac{15}{5} =$ _____

② $\frac{51}{2} - \frac{39}{2} =$ _____

③ $\frac{19}{7} + \frac{24}{7} =$ _____

④ $\frac{61}{4} + \frac{39}{4} =$ _____

⑤ $\frac{73}{3} - \frac{29}{3} =$ _____

⑥ $\frac{56}{6} + \frac{3}{6} =$ _____

⑦ $\frac{93}{10} - \frac{14}{10} =$ _____

⑧ $\frac{47}{7} - \frac{25}{7} =$ _____

⑨ $\frac{16}{5} + \frac{3}{5} =$ _____

⑩ $\frac{21}{6} + \frac{21}{6} =$ _____

⑪ $\frac{91}{3} - \frac{71}{3} =$ _____

⑫ $\frac{39}{2} + \frac{15}{2} =$ _____

10	7	2	9	11	11	10	12	5	1	11	8	12	4	10	8	12	12	3	6	9

Skill: Adding and subtracting improper fractions (same denominator)

CCSS: 4.NF.B.3.C

NAME: _____

DATE: _____

What did the T-Rex say about the plant-eating dinosaur?

**DIRECTIONS**

Solve the following problems and match your answers to the answers in the **Legend**. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.

Note: The problem numbers match the numbered rectangles.

- | | | | | | |
|-------------------------|-------------------------|-------------------------|--------------------------|--------------------------|-------------------------|
| N 6 | O $7\frac{1}{6}$ | T $7\frac{2}{3}$ | H $7\frac{2}{4}$ | B $5\frac{7}{10}$ | M $8\frac{1}{3}$ |
| I $8\frac{5}{8}$ | R $6\frac{1}{5}$ | E $7\frac{2}{6}$ | V $6\frac{2}{10}$ | | |

LEGEND

Solve the following problems. Leave your answer as a mixed number.

① $5\frac{1}{3} + 2\frac{1}{3} =$ _____

② $3\frac{4}{10} + 2\frac{3}{10} =$ _____

③ $2\frac{2}{5} + 3\frac{3}{5} =$ _____

④ $1\frac{2}{6} + 5\frac{5}{6} =$ _____

⑤ $4\frac{1}{4} + 3\frac{1}{4} =$ _____

⑥ $7\frac{2}{3} + \frac{2}{3} =$ _____

⑦ $3\frac{3}{8} + 5\frac{2}{8} =$ _____

⑧ $4\frac{5}{10} + 1\frac{7}{10} =$ _____

⑨ $1\frac{2}{5} + 4\frac{4}{5} =$ _____

⑩ $3\frac{5}{6} + 3\frac{3}{6} =$ _____

7	8	10

3	10	8	10	9

6	10	1

5	10	9

2	7	8	4	9	10

Skill: Adding mixed numbers (same denominator)

CCSS: 4.NF.B.3.C

NAME: _____

DATE: _____

What did one piece of leftover food say to the other?



Solve the following problems and match your answers to the answers in the **Legend**. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.

Note: The problem numbers match the numbered rectangles.

T $10\frac{1}{2}$

R $2\frac{1}{4}$

O $1\frac{1}{3}$

B $6\frac{3}{4}$

N $7\frac{1}{5}$

H $9\frac{4}{6}$

D $8\frac{1}{2}$

L $8\frac{5}{6}$

E $9\frac{2}{9}$

U $4\frac{1}{6}$

Y $3\frac{4}{5}$

C $2\frac{3}{10}$

M $5\frac{7}{10}$

F $7\frac{1}{3}$

LEGEND

Convert each improper fraction to a mixed number:

① $\frac{57}{10}$ _____

② $\frac{19}{5}$ _____

③ $\frac{22}{3}$ _____

④ $\frac{17}{2}$ _____

⑤ $\frac{58}{6}$ _____

⑥ $\frac{36}{5}$ _____

⑦ $\frac{23}{10}$ _____

⑧ $\frac{21}{2}$ _____

⑨ $\frac{27}{4}$ _____

⑩ $\frac{25}{6}$ _____

⑪ $\frac{83}{9}$ _____

⑫ $\frac{4}{3}$ _____

⑬ $\frac{9}{4}$ _____

4	12

2	12	10

7	13	10	1	9

5	11	13	11

12	3	8	11	6

?

Skill: Converting an improper fraction to a mixed number

CCSS: 4.NF.B.3.C

NAME: _____

DATE: _____

Why was the bear disappointed with his sports performance?



DIRECTIONS

Solve the following problems and match your answers to the answers in the **Legend**. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.

Note: The problem numbers match the numbered rectangles.

D $\frac{27}{4}$

A $\frac{74}{9}$

L $\frac{41}{6}$

I $\frac{27}{5}$

A $\frac{14}{5}$

I $\frac{25}{6}$

W $\frac{31}{9}$

E $\frac{5}{3}$

A $\frac{29}{4}$

D $\frac{11}{8}$

F $\frac{63}{8}$

S $\frac{19}{5}$

O $\frac{5}{2}$

H $\frac{31}{3}$

K $\frac{39}{10}$

S $\frac{39}{4}$

E $\frac{93}{10}$

LEGEND



Convert each mixed number to an improper fraction:

① $5\frac{2}{5}$ _____

② $3\frac{4}{9}$ _____

③ $7\frac{7}{8}$ _____

④ $1\frac{2}{3}$ _____

⑤ $6\frac{5}{6}$ _____

⑥ $9\frac{3}{4}$ _____

⑦ $2\frac{1}{2}$ _____

⑧ $9\frac{3}{10}$ _____

⑨ $7\frac{1}{4}$ _____

⑩ $3\frac{4}{5}$ _____

⑪ $8\frac{2}{9}$ _____

⑫ $10\frac{1}{3}$ _____

⑬ $2\frac{4}{5}$ _____

⑭ $6\frac{3}{4}$ _____

⑮ $1\frac{3}{8}$ _____

⑯ $3\frac{9}{10}$ _____

⑰ $4\frac{1}{6}$ _____

--	--

12 4

--	--	--

2 11 6

--	--	--

15 1 10

--	--	--	--	--

16 7 13 5 9

--	--	--	--

3 17 8 14

Skill: Converting a mixed number to an improper fraction

CCSS: 4.NF.B.3.C

NAME: _____

DATE: _____

What did the pickle say when he was accused of being sour?



DIRECTIONS

Solve the following problems and match your answers to the answers in the **Legend**. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.

Note: The problem numbers match the numbered rectangles.

W $\frac{6}{7}$

L $2\frac{7}{9}$

B $7\frac{3}{4}$

H $1\frac{7}{9}$

S $\frac{2}{3}$

T $3\frac{2}{3}$

A $1\frac{3}{4}$

G $4\frac{1}{2}$

E $3\frac{4}{5}$

I $\frac{1}{2}$

D $2\frac{4}{5}$

LEGEND



Use regrouping to solve the following problems. Express your answer in lowest terms.

① $6\frac{1}{4} - 1\frac{3}{4}$

② $6\frac{1}{3} - 5\frac{2}{3}$

③ $7\frac{2}{5} - 3\frac{3}{5}$

④ $2\frac{3}{8} - \frac{5}{8}$

⑤ $9\frac{1}{5} - 6\frac{2}{5}$

⑥ $5\frac{2}{7} - 4\frac{3}{7}$

⑦ $9\frac{3}{8} - 1\frac{5}{8}$

⑧ $4\frac{2}{9} - 2\frac{4}{9}$

⑨ $5\frac{1}{3} - 1\frac{2}{3}$

⑩ $5\frac{5}{9} - 2\frac{7}{9}$

⑪ $8 - 7\frac{1}{2}$

6	8	4	9	2

9	8	3

7	11	1

5	11	10	10

?

Skill: Subtracting fractions with regrouping (same denominator)
CCSS: 4.NF.B.3.C

NAME: _____

DATE: _____

What did the vegetables say when they were thrown into the pot?



DIRECTIONS

Solve the following problems and match your answers to the answers in the **Legend**. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.

Note: The problem numbers match the numbered rectangles.

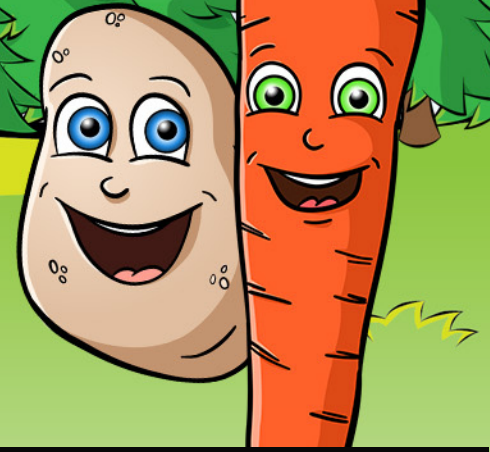
D 93

N $\frac{4}{5}$

O 2

L $6\frac{2}{5}$ I $4\frac{1}{2}$ C $2\frac{1}{4}$ T $3\frac{2}{3}$ R $12\frac{1}{2}$ A $3\frac{1}{2}$

LEGEND



Use regrouping to solve the following problems. Express your answer in lowest terms.

- ① Frank filled a measuring cup with $\frac{2}{3}$ cups of water. How much water will be in the measuring cup if he adds $1\frac{1}{3}$ more cups?
_____ cups
- ② Cooper recycled $13\frac{7}{8}$ lbs of bottles last week. If he recycles $11\frac{5}{8}$ lbs of bottles this week, how much more did he recycle last week than this week? _____ lbs
- ③ David is $42\frac{3}{4}$ inches tall. Stephen is $38\frac{1}{4}$ inches tall. How much taller is David than Stephen? _____ inches
- ④ The length of a sandbox is $4\frac{1}{5}$ ft. The width is $3\frac{2}{5}$ ft. What is the difference between the length and the width of the sandbox?
_____ ft.
- ⑤ A school bus drove $43\frac{3}{10}$ miles on its morning route. It drove $49\frac{7}{10}$ miles on its afternoon route. How many total miles did the school bus drive? _____ miles
- ⑥ In problem 5 to the left, how much longer is the school bus' afternoon route than its morning route? _____ miles
- ⑦ Aiden spent $1\frac{1}{3}$ hours working on his reading project. Then he spent $2\frac{1}{3}$ hours working on his science project. How much total time did he spend working on his school projects? _____ hours
- ⑧ Jenna had a bucket of sand weighing $15\frac{3}{4}$ lbs. If she dumps $3\frac{1}{4}$ lbs of sand out, how much will the bucket weigh?
_____ lbs
- ⑨ On Thursday it rained $1\frac{1}{8}$ inches. On Friday it rained $2\frac{3}{8}$ inches. How many inches did it rain in all? _____ inches

3

5

1

4

7

2

9

8

8

1

7

9

6

6

Skill: Adding and subtracting fractions, word problems (same denominator)

CCSS: 4.NF.B.3.D

NAME: _____

DATE: _____

Which comic character loves to eat clam chowder?



Solve the following problems and match your answers to the answers in the **Legend**. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.

Note: The problem numbers match the numbered rectangles.

A $3\frac{1}{9}$

O $1\frac{1}{3}$

N 3

P $2\frac{1}{4}$

U $1\frac{2}{4}$

R $3\frac{3}{5}$

T $4\frac{2}{3}$

S $1\frac{3}{7}$

M $1\frac{2}{10}$

E 2

LEGEND


Use the visual model to solve the problem:

① $\frac{2}{5} \times 5 =$

② $\frac{1}{3} \times 4 =$

③ $\frac{1}{2} \times 6 =$

④ $\frac{3}{4} \times 2 =$

⑤ $\frac{3}{10} \times 4 =$

⑥ $\frac{2}{7} \times 5 =$

⑦ $\frac{4}{9} \times 7 =$

⑧ $\frac{3}{5} \times 6 =$

⑨ $\frac{1}{4} \times 9 =$

6	2	4	9	1	8	5	7	3

NAME: _____

DATE: _____

What did the grapes say while dancing in the heat?



DIRECTIONS

Solve the following problems and match your answers to the answers in the **Legend**. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.

Note: The problem numbers match the numbered rectangles.

W $\frac{16}{5}$

S $\frac{6}{2}$

A $\frac{15}{8}$

I $\frac{15}{12}$

N $\frac{25}{8}$

T $\frac{9}{10}$

O $\frac{7}{2}$

R $\frac{25}{7}$

H $\frac{12}{7}$

F $\frac{21}{4}$

E $\frac{6}{5}$

LEGEND

Use the visual model to solve the problem. Leave your answer as an improper fraction:

① $\frac{3}{8} \times 5 =$

② $\frac{3}{4} \times 7 =$

③ $\frac{1}{2} \times 6 =$

④ $\frac{4}{5} \times 4 =$

⑤ $\frac{3}{10} \times 3 =$

⑥ $\frac{3}{7} \times 4 =$

⑦ $\frac{5}{8} \times 5 =$

⑧ $\frac{1}{2} \times 7 =$

⑨ $\frac{5}{12} \times 3 =$

⑩ $\frac{3}{5} \times 2 =$

⑪ $\frac{5}{7} \times 5 =$

4 10 11 10

11 1 9 3 9 7

5 6 10

11 8 8 2 !

Skill: Multiplying fractions by whole numbers – visual, bar

CCSS: 4.NF.B.4.A

NAME: _____

DATE: _____

Why was the man who was hit with a soda lucky?



DIRECTIONS

Solve the following problems and match your answers to the answers in the **Legend**. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.

Note: The problem numbers match the numbered rectangles.

N $1\frac{6}{8}$

A $1\frac{2}{10}$

S $1\frac{3}{4}$

R $1\frac{3}{6}$

W $1\frac{4}{5}$

T $2\frac{3}{5}$

F $3\frac{1}{3}$

O $2\frac{1}{3}$

D $2\frac{1}{4}$

I $2\frac{1}{7}$

K $1\frac{4}{7}$

LEGEND

Use the number lines to solve each problem:

① $\frac{1}{3} \times 7 =$

② $\frac{1}{5} \times 9 =$

③ $\frac{1}{8} \times 14 =$

④ $\frac{1}{4} \times 9 =$

⑤ $\frac{1}{7} \times 11 =$

⑥ $\frac{1}{3} \times 10 =$

⑦ $\frac{1}{6} \times 9 =$

⑧ $\frac{1}{5} \times 13 =$

⑨ $\frac{1}{10} \times 12 =$

⑩ $\frac{1}{7} \times 15 =$

⑪ $\frac{1}{4} \times 7 =$

10	8

2	9	11

9

11	1	6	8

4	7	10	3	5

Skill: Multiplying unit fractions with a number line

CCSS: 4.NF.B.4.A

DATE: _____



DIRECTIONS

Note: The problem numbers match the numbered rectangles.

F $6 \times \frac{1}{5}$

● $45 \times \frac{1}{7}$

U $21 \times \frac{1}{8}$

E $28 \times \frac{1}{9}$

W $10 \times \frac{1}{5}$

P $27 \times \frac{1}{11}$

④ $18 \times \frac{1}{11}$

N $14 \times \frac{1}{9}$

A $40 \times \frac{1}{8}$

C $8 \times \frac{1}{5}$

Ⓐ $39 \times \frac{1}{5}$

❶ $20 \times \frac{1}{7}$

Ⓜ $24 \times \frac{1}{5}$

● $30 \times \frac{1}{3}$

M $12 \times \frac{1}{7}$

LEGEND


$$\textcircled{1} \quad 3 \times \frac{7}{8} =$$

② $5 \times \frac{2}{5} =$

③ $2 \times \frac{3}{5} =$

④ $7 \times \frac{2}{9} =$

⑤ $4 \times \frac{3}{7} =$

⑥ $9 \times \frac{3}{11} =$

⑦ $12 \times \frac{2}{5} =$

⑧ $6 \times \frac{3}{11} =$

⑨ $10 \times \frac{2}{7} =$

⑩ $2 \times \frac{4}{5} =$

⑪ $14 \times \frac{2}{9} =$

⑫ $8 \times \frac{5}{8} =$

⑬ $15 \times \frac{2}{3} =$

⑭ $9 \times \frac{5}{7} =$

⑮ $13 \times \frac{3}{5} =$

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NAME: _____

DATE: _____

What did the umpire say to the angry baseball player?



DIRECTIONS

Solve the following problems and match your answers to the answers in the **Legend**. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.

Note: The problem numbers match the numbered rectangles.

- | | | | | | |
|-------------------------|-------------------------|-------------|-------------------------|-------------|-------------------------|
| S 25 | B 2 | O 12 | F $4\frac{1}{2}$ | E 30 | Y $1\frac{1}{2}$ |
| A $7\frac{1}{2}$ | L $5\frac{1}{2}$ | W 6 | R 15 | U 4 | |

LEGEND


- | | |
|--|--|
| <p>① A pile of dirt weighed 6 pounds. Jonathan put $\frac{2}{3}$ of the dirt pile in a bucket. How much did the dirt in the bucket weigh?
_____ lbs</p> | <p>② $\frac{1}{5}$ of the students in Mrs. May's class prefer chocolate chip cookies over sugar cookies. If there are 30 students in the class, how many students prefer chocolate chip cookies? _____ students</p> |
| <p>③ $\frac{5}{8}$ of the pens in the box are red. If there are 40 pens in the box, how many of them are red? _____ pens</p> | <p>④ 20 taekwondo students tested to receive their blackbelt and $\frac{3}{4}$ of them passed. How many students earned a blackbelt?
_____ students</p> |
| <p>⑤ Philip ran 8 miles on Monday. The next day he ran $\frac{1}{4}$ as many miles. How many miles did he run on Tuesday?
_____ miles</p> | <p>⑥ Shannon baked a cake with 3 cups of sugar. If she wants to bake a cake half that size, how many cups of sugar does she need?
_____ cups</p> |
| <p>⑦ 16 kids each received $\frac{3}{4}$ lbs of candy. What is the total amount of candy they received? _____ lbs</p> | <p>⑧ Greg stacked 6 books, each being $\frac{3}{4}$ inch tall. How tall was his pile of books? _____ inches</p> |
| <p>⑨ $\frac{5}{6}$ of the flowers in a vase were daisies. If there were 36 flowers in the vase, how many of them were daisies? _____ flowers</p> | <p>⑩ A box of juice weighs $\frac{1}{2}$ lb. How much does a pack of 15 juice boxes weigh? _____ lbs</p> |

6	7	1	4	9

2	10	6

7	8	8

5	10	3	9

Skill: Multiplying fractions by whole numbers – word problems
CCSS: 4.NF.B.4.C

NAME: _____

DATE: _____

Why did the calendar factory worker get fired?



DIRECTIONS

Solve the following problems and match your answers to the answers in the **Legend**. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.

Note: The problem numbers match the numbered rectangles.

H $\frac{77}{100}$

E $\frac{92}{100}$

D $\frac{30}{100}$

T $\frac{79}{100}$

Y $\frac{55}{100}$

F $\frac{29}{100}$

O $\frac{69}{100}$

M $\frac{88}{100}$

A $\frac{35}{100}$

F $\frac{91}{100}$

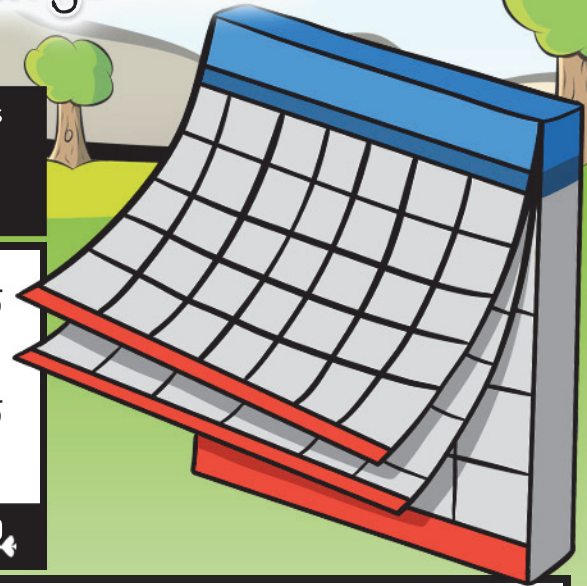
O $\frac{52}{100}$

O $\frac{78}{100}$

K $\frac{54}{100}$

A $\frac{82}{100}$

LEGEND



Find the sum after converting tenths to hundredths:

① $\frac{2}{10} + \frac{15}{100}$

② $\frac{7}{10} + \frac{8}{100}$

③ $\frac{19}{100} + \frac{1}{10}$

④ $\frac{32}{100} + \frac{6}{10}$

⑤ $\frac{8}{10} + \frac{2}{100}$

⑥ $\frac{1}{10} + \frac{44}{100}$

⑦ $\frac{71}{100} + \frac{2}{10}$

⑧ $\frac{3}{10} + \frac{22}{100}$

⑨ $\frac{37}{100} + \frac{4}{10}$

⑩ $\frac{6}{10} + \frac{19}{100}$

⑪ $\frac{5}{10} + \frac{5}{100}$

⑫ $\frac{2}{10} + \frac{49}{100}$

⑬ $\frac{2}{10} + \frac{10}{100}$

--	--

9 4

--	--	--	--

10 2 8 6

--

1

--	--	--

13 5 11

--	--	--

12 3 7

Skill: Expressing a fraction with denominator 10 as a fraction with denominator 100

CCSS: 4.NF.C.5

What did the librarian say when the books were a mess?

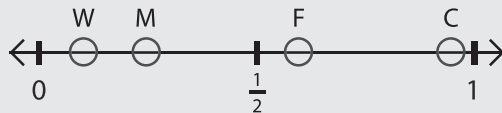


DIRECTIONS

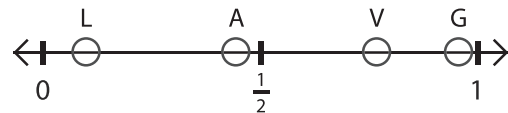
Solve the following problems. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.

Note: The problem numbers match the numbered rectangles.

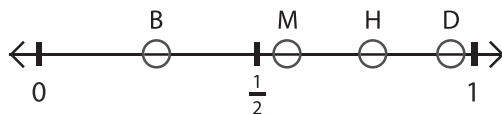
Use the number lines to answer the following questions:



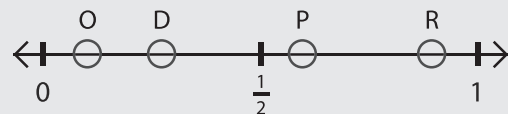
- ① Which letter best represents 0.6? _____
 ② Which letter best represents 0.05? _____



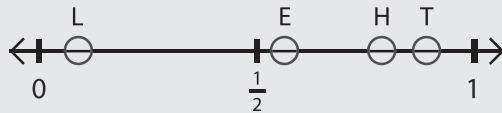
- ③ Which letter best represents 0.75? _____
 ④ Which letter best represents 0.96? _____



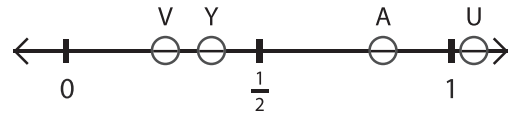
- ⑤ Which letter best represents 0.55? _____
 ⑥ Which letter best represents 0.25? _____



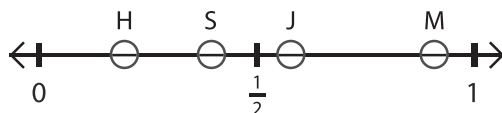
- ⑦ Which letter best represents 0.3? _____
 ⑧ Which letter best represents 0.8? _____



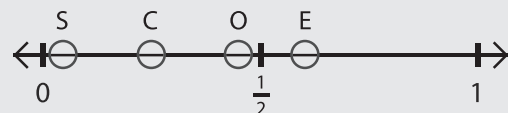
- ⑨ Which letter best represents 0.1? _____
 ⑩ Which letter best represents 0.83? _____



- ⑪ Which letter best represents 1.10? _____
 ⑫ Which letter best represents 0.77? _____



- ⑬ Which letter best represents 0.41? _____
 ⑭ Which letter best represents 0.2? _____



- ⑮ Which letter best represents 0.45? _____
 ⑯ Which letter best represents 0.6? _____

2	16	15	11	4	14	10	10	15	6	16	12	13	14	12	5	16	7	15	1	15	11	8	13	14	16	9	3	16	13
---	----	----	----	---	----	----	----	----	---	----	----	----	----	----	---	----	---	----	---	----	----	---	----	----	----	---	---	----	----

NAME: _____

DATE: _____

Where do tyrannosaurus rexes get their groceries?



DIRECTIONS

Solve the following problems and match your answers to the answers in the **Legend**. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.

Note: The problem numbers match the numbered rectangles.

S $\frac{12}{100}$

R $\frac{45}{100}$

O $\frac{9}{10}$

N $\frac{33}{100}$

E $\frac{7}{10}$

E $\frac{8}{10}$

T $\frac{1}{10}$

O $\frac{65}{100}$

D $\frac{77}{100}$

T $\frac{2}{10}$

H $\frac{93}{100}$

I $\frac{69}{100}$

P $\frac{22}{100}$

LEGEND



Convert the following decimals to fractions:

① 0.65 _____

② 0.8 _____

③ 0.33 _____

④ 0.12 _____

⑤ 0.1 _____

⑥ 0.77 _____

⑦ 0.45 _____

⑧ 0.7 _____

⑨ 0.2 _____

⑩ 0.93 _____

⑪ 0.9 _____

⑫ 0.69 _____

--	--	--

5 10 2

--	--	--	--	--	--	--	--

6 12 3 11 4 9 1 7 8

Skill: Converting decimals to fractions

CCSS: 4.NF.C.6

NAME: _____

DATE: _____

Why do French people eat snails?



Solve the following problems and match your answers to the answers in the **Legend**. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.

Note: The problem numbers match the numbered rectangles.

T $\frac{3}{10}$

A 0.1

O 0.53

N $\frac{2}{10}$

T $\frac{34}{100}$

A $\frac{8}{10}$

O $\frac{6}{10}$

W 0.3

T 0.05

E 0.71

O $\frac{5}{100}$

D 0.34

T $\frac{71}{100}$

S $\frac{53}{100}$

F 0.6

H 0.2

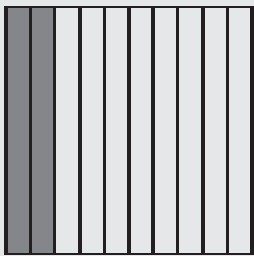
F $\frac{99}{100}$

E 0.99

Y 0.8

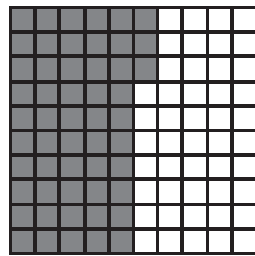
LEGEND

Determine the value represented by the shaded portion in each graph and write it as either a fraction or decimal:



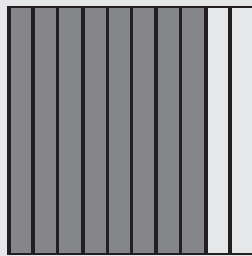
① Fraction: _____

② Decimal: _____



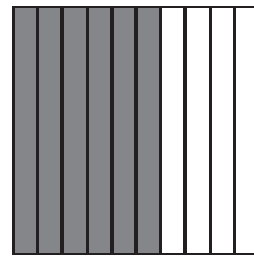
③ Fraction: _____

④ Decimal: _____



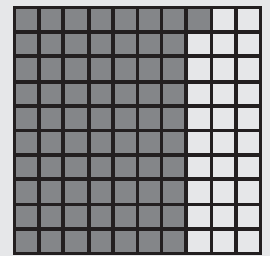
⑤ Fraction: _____

⑥ Decimal: _____



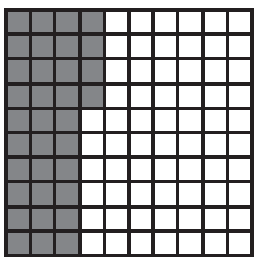
⑦ Fraction: _____

⑧ Decimal: _____



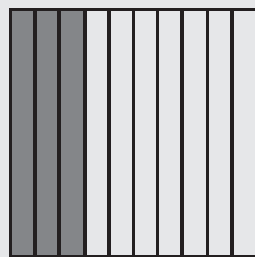
⑨ Fraction: _____

⑩ Decimal: _____



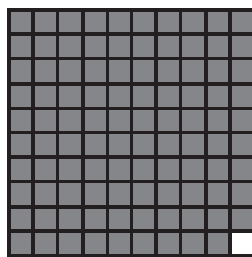
⑪ Fraction: _____

⑫ Decimal: _____



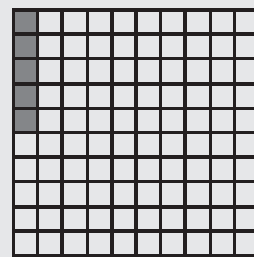
⑬ Fraction: _____

⑭ Decimal: _____



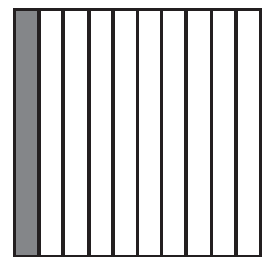
⑮ Fraction: _____

⑯ Decimal: _____



⑰ Fraction: _____

⑱ Decimal: _____



⑲ Decimal: _____

13 2 10 6

14 7 1 11

16 5 9

15 19 3 18

8 17 4 12

Skill: Finding equivalent fractions and decimals, visual
CCSS: 4.NF.C.6

NAME: _____

DATE: _____

What did the woman say when she cleaned out her spice rack?



DIRECTIONS

Solve the following problems and match your answers to the answers in the **Legend**. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.

Note: The problem numbers match the numbered rectangles.

F 0.86	T 0.03	S 0.99	R 0.05	W 0.09
M 0.36	A 0.1	H 0.77	W 0.72	A 0.01
T 0.7	Y 0.3	T 0.51	O 0.45	
A 0.9	E 0.69	H 0.07	E 0.39	

LEGEND



Convert the following fractions to decimals:

- | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|
| ① $\frac{45}{100}$ _____ | ② $\frac{9}{10}$ _____ | ③ $\frac{77}{100}$ _____ | ④ $\frac{36}{100}$ _____ |
| ⑤ $\frac{9}{100}$ _____ | ⑥ $\frac{1}{10}$ _____ | ⑦ $\frac{51}{100}$ _____ | ⑧ $\frac{69}{100}$ _____ |
| ⑨ $\frac{86}{100}$ _____ | ⑩ $\frac{1}{100}$ _____ | ⑪ $\frac{3}{10}$ _____ | ⑫ $\frac{39}{100}$ _____ |
| ⑬ $\frac{3}{100}$ _____ | ⑭ $\frac{72}{100}$ _____ | ⑮ $\frac{99}{100}$ _____ | ⑯ $\frac{7}{10}$ _____ |
| ⑰ $\frac{7}{100}$ _____ | | | |

14	3	10	16

6

5	2	15	13	8

1	9

7	17	11	4	12

Skill: Converting fractions to decimals (tenths and hundredths)

CCSS: 4.NF.C.6

NAME: _____

DATE: _____

What was the football coach yelling at the vending machine?



DIRECTIONS

Solve the following problems in the sections below. Then record the corresponding letter of the correct answer in the rectangles at the bottom to answer the riddle.

Note: The problem numbers match the numbered rectangles.



Choose the symbol that correctly compares the numbers:

① $4.35 \bigcirc 4.52$

A < **F** > **C** =

② $9.6 \bigcirc 9.06$

S < **M** > **R** =

③ $3.3 \bigcirc 3.7$

C < **X** > **O** =

④ $2.2 \bigcirc 2.20$

C < **A** > **I** =

⑤ $7.6 \bigcirc 7.36$

L < **E** > **P** =

⑥ $12.71 \bigcirc 12.9$

Y < **E** > **T** =

⑦ $1.99 \bigcirc 1.09$

R < **B** > **S** =

⑧ $3.70 \bigcirc 3.7$

V < **R** > **M** =

⑨ $90.01 \bigcirc 90.1$

R < **O** > **P** =

⑩ $5.54 \bigcirc 5.15$

B < **M** > **V** =

⑪ $6.00 \bigcirc 5.99$

H < **K** > **E** =

⑫ $12.77 \bigcirc 12.97$

G < **S** > **C** =

⑬ $9.5 \bigcirc 9.50$

T < **H** > **U** =

⑭ $11.1 \bigcirc 11.01$

I < **A** > **O** =

⑮ $6.37 \bigcirc 6.73$

R < **S** > **L** =

⑯ $10.37 \bigcirc 10.17$

S < **E** > **O** =

⑰ $0.7 \bigcirc 0.70$

L < **F** > **T** =

⑱ $5.9 \bigcirc 5.71$

K < **Q** > **M** =

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12 4 8 2 16

--	--

10 6

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18 13 1 9 17 5 15

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7 14 3 11

!

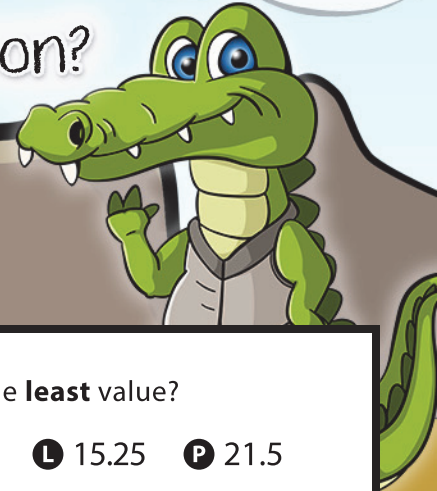
Skill: Comparing decimals

CCSS: 4.NF.C.6

NAME: _____

DATE: _____

What do you call an alligator with a vest on?



Solve the following problems in the sections below. Then record the corresponding letter of the correct answer in the rectangles at the bottom to answer the riddle.

Note: The problem numbers match the numbered rectangles.

① Which number has the **least** value?

A 3.21 **S** 32.1 **E** 3.12 **G** 3.22

② Which number has the **least** value?

M 15.2 **R** 5.12 **L** 15.25 **P** 21.5

③ Which number has the **least** value?

G 7.25 **J** 7.52 **A** 75.2 **V** 0.725

④ Which number has the **least** value?

L 92.5 **S** 925 **G** 5.92 **B** 59.2

⑤ Which number has the **least** value?

S 0.286 **R** 2.68 **L** 2.86 **A** 6.28

⑥ Which number has the *greatest* value?

E 7.99 **I** 9.77 **O** 97.7 **V** 77.9

⑦ Which number has the *greatest* value?

I 80.5 **A** 85.0 **O** 5.80 **P** 58.0

⑧ Which number has the *greatest* value?

I 65.3 **D** 63.5 **R** 56.3 **H** 53.6

⑨ Which number has the *greatest* value?

L 70.3 **T** 73.0 **P** 37.0 **M** 30.7

⑩ Sam finished a race in 9.2 min. Jill finished the race in 9.6 min. Ava finished the race in 8.3 min. Tim finished the race in 6.5 min. Who finished in the least amount of time?

A Sam **S** Jill **E** Ava **N** Tim

				-							-									
7	10	8	10		3	1	5	9	8	4	7	9	6	2						

NAME: _____

DATE: _____

Which animal should you never give your uncle?



Solve the following problems in the sections below. Then record the corresponding letter of the correct answer in the rectangles at the bottom to answer the riddle.

Note: The problem numbers match the numbered rectangles.



① Which shows the correct order from least to greatest?

- B** 4.25, 1.77, 3.66, 2.79 **A** 7.3, 7.55, 7.6, 7.91
R 5.36, 2.75, 9.61, 9.66

② Which shows the correct order from least to greatest?

- N** 3.05, 3.5, 3.53, 3.82 **V** 4.7, 4.07, 4.71, 4.3
H 5.2, 6.7, 2.3, 3.04

③ Which shows the correct order from least to greatest?

- S** 9.25, 9.52, 9.05, 9.55 **E** 3.06, 3.56, 3.60, 3.65
H 5.21, 5.12, 5.02, 5.0

④ Which shows the correct order from least to greatest?

- L** 4.20, 4.02, 4.12, 4.7 **O** 6.25, 6.12, 6.02, 6.67
E 7.15, 7.32, 7.59, 7.95

⑤ Which shows the correct order from least to greatest?

- A** 0.03, 0.05, 0.5, 5.0 **I** 0.5, 0.33, 0.6, 0.61
T 1.6, 1.06, 1.66, 1.71

⑥ Which shows the correct order from **greatest** to least?

- L** 7.25, 7.52, 7.15, 7.06 **T** 9.54, 9.45, 9.4, 9.04
P 0.77, 0.79, 0.8, 0.82

⑦ Which shows the correct order from **greatest** to least?

- G** 4.7, 4.2, 5.5, 5.9 **T** 3.7, 3.65, 3.55, 3.61
N 2.7, 2.68, 2.5, 2.43

⑧ Which shows the correct order from **greatest** to least?

- E** 3.36, 3.63, 3.03, 3.31 **T** 5.8, 5.75, 5.57, 5.3
B 0.77, 0.9, 1.54, 1.45

⑨ Which shows the correct order from **greatest** to least?

- R** 1.97, 0.97, 0.79, 0.7 **L** 5.36, 5.16, 4.95, 4.99
G 9.7, 9.07, 9.03, 9.3

⑩ Which shows the correct order from **greatest** to least?

- O** 5.33, 5.03, 5.01, 5.02 **I** 9.99, 9.09, 9.19, 9.01
A 6.59, 6.39, 6.04, 4.06

--	--

5 7

--	--	--	--	--	--	--	--

10 2 8 4 1 6 3 9

Skill: Ordering decimals

CCSS: 4.NF.C.7

Why was the belt put in prison?



Solve the following problems in the sections below. Then record the corresponding letter of the correct answer in the rectangles at the bottom to answer the riddle.

Note: The problem numbers match the numbered rectangles.

For problems 1–6, determine which sequence shows the correct order from least to greatest:

- | | | |
|---|---|---|
| ① G \$15.37, \$15.33, \$15.70, \$15.07
L \$15.07, \$15.33, \$15.37, \$15.70
A \$15.70, \$15.07, \$15.33, \$15.37 | ② U \$2.09, \$2.11, \$2.19, \$2.91
O \$2.09, \$2.91, \$2.11, \$2.19
H \$2.91, \$2.19, \$2.11, \$2.09 | ③ S \$19.99, \$19.97, \$19.09, \$19.19
P \$19.97, \$19.09, \$19.19, \$19.99
T \$19.09, \$19.19, \$19.97, \$19.99 |
| ④ M \$0.10, \$0.11, \$0.05, \$0.50
D \$0.05, \$0.10, \$0.11, \$0.50
P \$0.10, \$0.11, \$0.05, \$0.50 | ⑤ L \$2.21, \$2.02, \$2.01, \$2.22
S \$2.01, \$2.02, \$2.21, \$2.22
N \$2.21, \$2.01, \$2.02, \$2.22 | ⑥ H \$99.55, \$99.57, \$99.79, \$99.99
A \$99.99, \$99.55, \$99.57, \$99.79
B \$99.99, \$99.79, \$99.57, \$99.55 |

For problems 7–12, determine which sequence shows the correct order from greatest to least:

- | | | |
|---|---|---|
| ⑦ B \$0.76, \$0.66, \$0.70, \$0.80
G \$0.80, \$0.76, \$0.70, \$0.66
C \$0.66, \$0.70, \$0.76, \$0.80 | ⑧ D \$1.36, \$1.63, \$1.45, \$1.54
I \$1.63, \$1.54, \$1.45, \$1.36
F \$1.36, \$1.45, \$1.54, \$1.63 | ⑨ F \$10.51, \$10.50, \$10.15, \$10.05
P \$10.05, \$10.51, \$10.50, \$10.15
Y \$10.51, \$10.50, \$10.51, \$10.05 |
| ⑩ R \$7.01, \$7.03, \$7.10, \$7.13
T \$7.13, \$7.03, \$7.10, \$7.01
A \$7.13, \$7.10, \$7.03, \$7.01 | ⑪ I \$60.71, \$60.07, \$60.17, \$60.70
N \$60.77, \$60.71, \$60.70, \$60.07
P \$60.07, \$60.71, \$60.77, \$60.70 | ⑫ Z \$11.00, \$11.06, \$11.60, \$11.61
P \$11.61, \$11.06, \$11.60, \$11.00
R \$11.61, \$11.60, \$11.06, \$11.00 |

- ⑬ Finn has \$15.71, Jimmy has \$15.07, and Sam has \$15.75. Which shows their order of money from least to greatest?

- O** Jimmy, Finn, Sam **A** Sam, Jimmy, Finn
I Finn, Sam, Jimmy

- ⑭ A packet of hydrangea seeds costs \$1.50. A packet of sunflower seeds costs \$1.17. A packet of tomato seeds costs \$1.03. Which shows the seeds from greatest to least expensive?

- C** sunflower, hydrangea, tomato
T tomato, sunflower, hydrangea
P hydrangea, sunflower, tomato

9	13	12	6	13	1	4	8	11	7	2	14	10	14	10	8	12	13	9	14	10	11	3	5

Skill: Ordering money, same dollar amount

CCSS: 4.NF.C.7

What did the girl say when a clown
held the door for her?



Solve the following problems in the sections below. Then record the corresponding letter of the correct answer in the rectangles at the bottom to answer the riddle.

Note: The problem numbers match the numbered rectangles.

For problems 1–5, determine which sequence shows the correct order from least to greatest:

- ① **P** \$5.22, \$4.77, \$9.71, \$1.07
B \$4.77, \$9.71, \$1.07, \$5.22
N \$1.07, \$4.77, \$5.22, \$9.71
- ② **H** \$7.07, \$5.07, \$7.18, \$5.19
S \$5.07, \$5.19, \$7.07, \$7.18
A \$7.18, \$5.07, \$7.07, \$5.19
- ③ **W** \$26.91, \$27.99, \$29.13, \$30
V \$30, \$26.91, \$27.99, \$29.13
M \$30, \$29.13, \$27.99, \$26.91
- ④ **A** \$11.01, \$11.11, \$10, \$9.95
I \$9.95, \$10, \$11.01, \$11.11
E \$10, \$9.95, \$11.01, \$11.11
- ⑤ **P** \$5.15, \$3.15, \$9.15, \$0.15
R \$0.15, \$3.15, \$9.15, \$5.15
J \$0.15, \$3.15, \$5.15, \$9.15

For problems 6–10, determine which sequence shows the correct order from greatest to least:

- ⑥ **H** \$9.99, \$9.09, \$0.99, \$0.09
O \$0.90, \$9.09, \$0.99, \$9.99
I \$9.99, \$9.09, \$0.09, \$0.99
- ⑦ **L** \$12.02, \$21.20, \$10.02, \$0.12
P \$0.12, \$10.02, \$21.20, \$12.02
R \$21.20, \$12.02, \$10.02, \$0.12
- ⑧ **B** \$5.15, \$5.26, \$2.56, \$2.51
C \$5.26, \$5.15, \$2.56, \$2.51
V \$2.51, \$2.56, \$5.15, \$5.26
- ⑨ **P** \$0.77, \$0.07, \$17.70, \$7.07
M \$0.07, \$0.77, \$7.07, \$17.70
T \$17.70, \$7.07, \$0.77, \$0.07
- ⑩ **A** \$100, \$95.17, \$19.05, \$0.76
E \$100, \$19.05, \$0.76, \$95.17
O \$0.76, \$95.17, \$100, \$19.05

Use the pizza menu on the left for problem 11:

Pizzas-R-Us

By the slice



Combo.....\$2.67
 Pepperoni.....\$2.15
 Cheese.....\$1.99
 Specialty.....\$3.00

- ⑪ Which shows the cost of the pizza slices in order from least to greatest?

- A** specialty, combo, pepperoni, cheese
O cheese, combo, specialty, pepperoni
E cheese, pepperoni, combo, specialty

3	6	10	9

10

1	4	8	11

5	11	2	9	11	7

NAME: _____ DATE: _____

What did the bird say to the parrot who liked to play practical jokes?

DIRECTIONS Solve the following problems and match your answers to the answers in the Legend. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.
Note: The problem numbers match the numbered rectangles.

N 20	R 5	A 42	Y 2	G 16
A 40	C 56	O 14	A 8	H 3
E 90	A 44	T 30	M 25	U 60
T 70	T 28	P 27	L 4	

LEGEND



Find the missing number that makes an equivalent fraction:

- | | | |
|--|---|--|
| ① $\frac{1}{5} = \frac{?}{40}$ 8 A | ② $\frac{7}{8} = \frac{49}{?}$ 56 C | ③ $\frac{1}{3} = \frac{?}{9}$ 3 H |
| ④ $\frac{3}{4} = \frac{30}{?}$ 40 A | ⑤ $\frac{1}{2} = \frac{7}{?}$ 14 O | ⑥ $\frac{3}{7} = \frac{12}{?}$ 28 T |
| ⑦ $\frac{1}{8} = \frac{?}{32}$ 4 L | ⑧ $\frac{9}{10} = \frac{81}{?}$ 90 E | ⑨ $\frac{5}{12} = \frac{?}{144}$ 60 U |
| ⑩ $\frac{5}{6} = \frac{25}{?}$ 30 T | ⑪ $\frac{3}{10} = \frac{6}{?}$ 20 N | ⑫ $\frac{4}{9} = \frac{?}{36}$ 16 G |
| ⑬ $\frac{6}{7} = \frac{36}{?}$ 42 A | ⑭ $\frac{7}{9} = \frac{21}{?}$ 27 P | ⑮ $\frac{7}{10} = \frac{?}{100}$ 70 T |
| ⑯ $\frac{1}{9} = \frac{?}{18}$ 2 Y | ⑰ $\frac{3}{11} = \frac{12}{?}$ 44 A | ⑱ $\frac{4}{5} = \frac{20}{?}$ 25 M |

T O U C A N P L A Y T H A T G A M E
15 5 9 2 17 11 14 7 1 16 10 3 13 6 12 4 18 8

Skill: Finding equivalent fractions
CCSS: 4.NF.A.1

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Why did the pencil never do well on tests?

DIRECTIONS Solve the following problems and match your answers to the answers in the Legend. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.
Note: The problem numbers match the numbered rectangles.

U $\frac{4}{12}$	I $\frac{8}{28}$	W $\frac{30}{60}$	S $\frac{3}{6}$	A $\frac{3}{30}$	D $\frac{12}{20}$
T $\frac{6}{15}$	E $\frac{4}{16}$	L $\frac{15}{20}$	M $\frac{5}{8}$	H $\frac{8}{18}$	

LEGEND



Find the missing fraction that completes the pattern:

- | | |
|--|---|
| ① $\frac{1}{2} = \frac{2}{4} = \frac{?}{?} = \frac{4}{8} = \frac{5}{10}$ $\frac{3}{6}$ S | ② $\frac{2}{7} = \frac{4}{14} = \frac{6}{21} = \frac{?}{?} = \frac{10}{35} = \frac{12}{42}$ $\frac{8}{28}$ I |
| ③ $\frac{4}{9} = \frac{?}{?} = \frac{12}{27} = \frac{16}{36} = \frac{20}{45} = \frac{24}{54}$ $\frac{8}{18}$ H | ④ $\frac{1}{3} = \frac{2}{6} = \frac{3}{9} = \frac{?}{?} = \frac{5}{15} = \frac{6}{18}$ $\frac{4}{12}$ U |
| ⑤ $\frac{5}{10} = \frac{10}{20} = \frac{15}{30} = \frac{20}{40} = \frac{25}{50} = \frac{?}{?}$ $\frac{30}{60}$ W | ⑥ $\frac{3}{5} = \frac{6}{10} = \frac{9}{15} = \frac{?}{?} = \frac{15}{25} = \frac{18}{30}$ $\frac{12}{20}$ D |
| ⑦ $\frac{1}{4} = \frac{2}{8} = \frac{3}{12} = \frac{?}{?} = \frac{5}{20} = \frac{6}{24}$ $\frac{4}{16}$ E | ⑧ $\frac{1}{10} = \frac{2}{20} = \frac{?}{?} = \frac{4}{40} = \frac{5}{50} = \frac{6}{60}$ $\frac{3}{30}$ A |
| ⑨ $\frac{2}{5} = \frac{4}{10} = \frac{?}{?} = \frac{8}{20} = \frac{10}{25} = \frac{12}{30}$ $\frac{6}{15}$ T | ⑩ $\frac{3}{4} = \frac{6}{8} = \frac{9}{12} = \frac{12}{16} = \frac{?}{?} = \frac{18}{24}$ $\frac{15}{20}$ L |

H E W A S A L I T T L E D U L L
3 7 5 8 1 8 10 2 9 9 10 7 6 4 10 10

Skill: Finding equivalent fraction patterns
CCSS: 4.NF.A.1

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NAME: _____ DATE: _____

What do you call people who are afraid of Santa?

DIRECTIONS Solve the following problems and match your answers to the answers in the Legend. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.
Note: The problem numbers match the numbered rectangles.

C $\frac{5}{6}$	T $\frac{9}{10}$	R $\frac{5}{9}$	B $\frac{3}{4}$	U $\frac{5}{8}$
S $\frac{3}{8}$	O $\frac{1}{8}$	L $\frac{2}{3}$	D $\frac{5}{7}$	I $\frac{1}{3}$
H $\frac{1}{2}$	C $\frac{1}{6}$	P $\frac{1}{10}$	A $\frac{1}{4}$	

LEGEND

For each fraction, simplify as much as possible:

- | | | |
|------------------------------------|-----------------------------------|-----------------------------------|
| ① $\frac{15}{27} = \frac{5}{9}$ R | ② $\frac{14}{56} = \frac{1}{4}$ A | ③ $\frac{9}{18} = \frac{1}{2}$ H |
| ④ $\frac{21}{28} = \frac{3}{4}$ B | ⑤ $\frac{30}{80} = \frac{3}{8}$ S | ⑥ $\frac{5}{40} = \frac{1}{8}$ O |
| ⑦ $\frac{6}{18} = \frac{1}{3}$ I | ⑧ $\frac{16}{24} = \frac{2}{3}$ L | ⑨ $\frac{40}{48} = \frac{5}{6}$ C |
| ⑩ $\frac{40}{64} = \frac{5}{8}$ U | ⑪ $\frac{7}{42} = \frac{1}{6}$ G | ⑫ $\frac{15}{21} = \frac{5}{7}$ D |
| ⑬ $\frac{36}{40} = \frac{9}{10}$ T | ⑭ $\frac{7}{70} = \frac{1}{10}$ P | |

C L A U S - T R O P H O B I C
11 8 2 10 5 13 1 6 14 3 12 4 7 9

Skill: Simplifying fractions
CCSS: 4.NF.A.1

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NAME: _____ DATE: _____

On what mountain do people never sleep?

DIRECTIONS Solve the following problems in the sections below. Then record the corresponding letter of the correct answer in the rectangles at the bottom to answer the riddle.
Note: The problem numbers match the numbered rectangles.

Choose the symbol that correctly compares the fractions:

- | | | |
|--|---|---|
| ① $\frac{2}{5} < \frac{10}{12}$
U < O > P = | ② $\frac{9}{12} = \frac{3}{4}$
N < G > S = | ③ $\frac{2}{3} > \frac{1}{5}$
P < N > S = |
| ④ $\frac{5}{12} < \frac{5}{8}$
O < E > A = | ⑤ $\frac{2}{3} < \frac{4}{5}$
V < X > L = | ⑥ $\frac{1}{2} > \frac{5}{12}$
S < M > R = |
| ⑦ $\frac{3}{4} = \frac{12}{16}$
K < V > T = | ⑧ $\frac{3}{10} < \frac{3}{8}$
R < L > M = | ⑨ $\frac{7}{8} < \frac{8}{9}$
E < O > U = |

M O U N T - N E V E R - R E S T
6 4 1 3 7 3 9 5 9 8 8 9 2 7

Skill: Comparing fractions
CCSS: 4.NF.A.2

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9

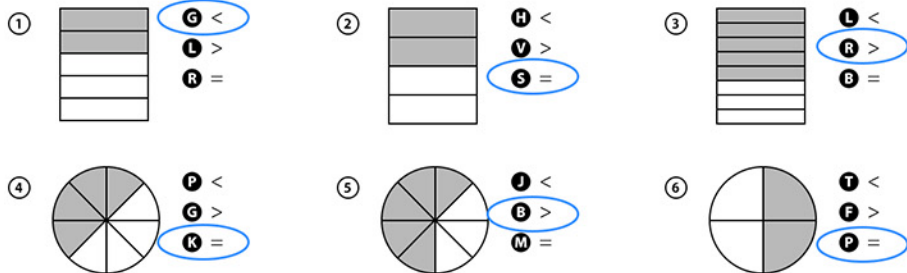
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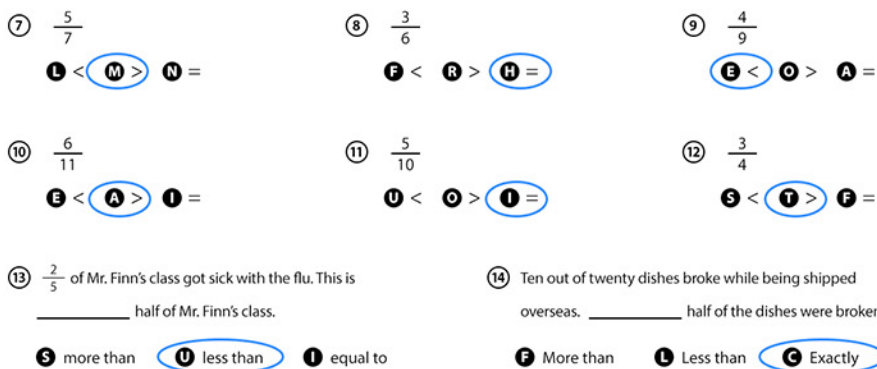
Why can't you tell a joke while standing on ice?

DIRECTIONS Solve the following problems in the sections below. Then record the corresponding letter of the correct answer in the rectangles at the bottom to answer the riddle.
Note: The problem numbers match the numbered rectangles.

For problems 1–6, determine if the shaded region is less, more, or equal to half:



For problems 7–14, determine if the fraction is less, more, or equal to half:



B E C A U S E I T M I G H T C R A C K U P

Skill: Comparing fractions to one half
CCSS: 4.NF.A.2

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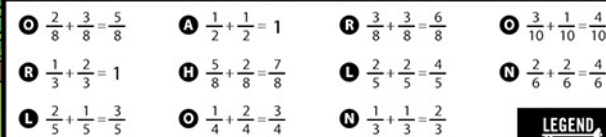
10

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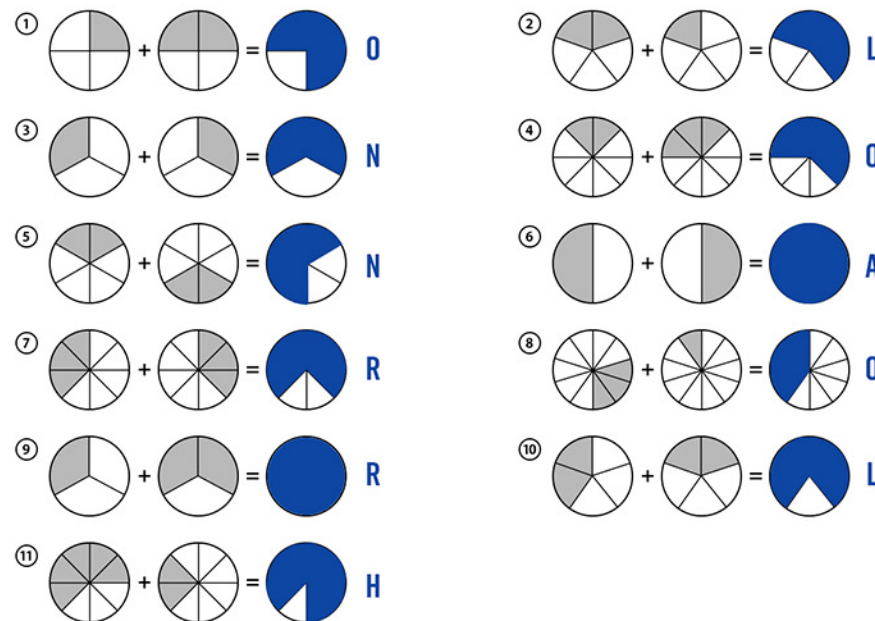
NAME: _____ DATE: _____

What do you call a piece of bread that gets good grades?

DIRECTIONS Solve the following problems and match your answers to the answers in the Legend. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.
Note: The problem numbers match the numbered rectangles.



Shade in the fraction to solve each problem:



A N H O N O R R O L L

Skill: Adding fractions – visual
CCSS: 4.NF.B.3.B

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NAME: _____ DATE: _____

What do you call a cow with a twitch?



DIRECTIONS

Solve the following problems and match your answers to the answers in the **Legend**. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.

Note: The problem numbers match the numbered rectangles.

Add the fractions, then match your answer to the correct picture from the legend:

LEGEND

① $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} = \frac{3}{6}$ **E**

② $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} = \frac{3}{8}$ **F**

③ $\frac{1}{5} + \frac{1}{5} = \frac{2}{5}$ **Y**

④ $\frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} = \frac{5}{10}$ **E**

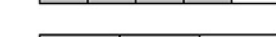
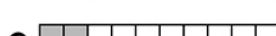
⑤ $\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$ **R**

⑥ $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} = \frac{6}{8}$ **B**

⑦ $\frac{1}{10} + \frac{1}{10} = \frac{2}{10}$ **J**

⑧ $\frac{1}{6} + \frac{1}{6} = \frac{2}{6}$ **K**

⑨ $\frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5} = \frac{4}{5}$ **E**



B E E F
6 4 9 2

J E R K Y
7 1 5 8 3

Skill: Adding parts of a whole – visual
CCSS: 4.NF.B.3.B

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NAME: _____ DATE: _____

Why did the banker quit his job?



DIRECTIONS

Solve the following problems and match your answers to the answers in the **Legend**. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.

Note: The problem numbers match the numbered rectangles.

Add the fractions, then match your answer to the correct picture from the legend:

LEGEND

① $\frac{5}{10} + \frac{4}{10} = \frac{9}{10}$ **O**

② $\frac{1}{4} + \frac{3}{4} = \frac{4}{4}$ **N**

③ $\frac{3}{6} + \frac{1}{6} = \frac{4}{6}$ **R**

④ $\frac{2}{3} + \frac{2}{3} = 1\frac{1}{3}$ **H**

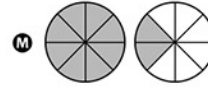
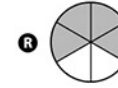
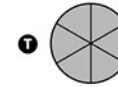
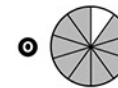
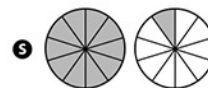
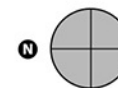
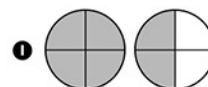
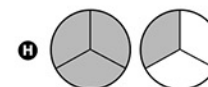
⑤ $\frac{1}{5} + \frac{3}{5} = \frac{4}{5}$ **L**

⑥ $\frac{3}{4} + \frac{3}{4} = 1\frac{1}{4}$ **I**

⑦ $\frac{6}{10} + \frac{5}{10} = 1\frac{1}{10}$ **S**

⑧ $\frac{5}{6} + \frac{5}{6} = 1\frac{4}{6}$ **B**

⑨ $\frac{2}{5} + \frac{3}{5} = \frac{5}{5}$ **E**



H E
4 9

L O S T
5 1 7 8

I N T E R E S T
6 2 8 9 3 9 7 8

Skill: Adding fractions – numeric & visual
CCSS: 4.NF.B.3.B

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Why was the owl unpopular with the other birds?

DIRECTIONS Solve the following problems and match your answers to the answers in the Legend. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.
Note: The problem numbers match the numbered rectangles.

I $4\frac{1}{3}$ **O** $6\frac{2}{4}$ **W** $3\frac{1}{10}$ **N** 4 **A** 3 **L** $5\frac{3}{4}$
H $4\frac{2}{3}$ **K** 5 **T** $3\frac{3}{5}$ **S** $5\frac{3}{10}$ **E** $6\frac{1}{4}$

LEGEND



Use the visual model to solve the problem:

① $1\frac{2}{5} + 2\frac{1}{5} = 3\frac{3}{5}$ **T**



② $2\frac{1}{3} + 2\frac{1}{3} = 4\frac{2}{3}$ **H**



③ $2\frac{7}{10} + 2\frac{6}{10} = 5\frac{13}{10}$ **S**



④ $3\frac{2}{4} + 2\frac{1}{4} = 5\frac{3}{4}$ **L**



⑤ $2\frac{3}{5} + 2\frac{2}{5} = 5$ **K**



⑥ $1\frac{2}{3} + 2\frac{2}{3} = 4\frac{1}{3}$ **I**



⑦ $4\frac{3}{4} + 1\frac{2}{4} = 6\frac{1}{4}$ **E**



⑧ $1\frac{3}{10} + 2\frac{7}{10} = 4$ **N**



⑨ $2\frac{1}{3} + \frac{2}{3} = 3$ **A**



⑩ $3\frac{3}{4} + 2\frac{3}{4} = 6\frac{2}{4}$ **O**



⑪ $1\frac{2}{10} + 1\frac{9}{10} = 3\frac{1}{10}$ **W**



H **E** **W** **A** **S** **A** **K** **N** **O** **W** - **I** **T** - **O** **W** **L**

Skill: Adding mixed numbers – visual
CCSS: 4.NF.B.3.C

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What did one piece of gum say to the other when they broke up?

DIRECTIONS Solve the following problems and match your answers to the answers in the Legend. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.
Note: The problem numbers match the numbered rectangles.

N $\frac{22}{7}$ **I** 7 **S** $\frac{20}{3}$ **B** $\frac{59}{6}$ **O** $\frac{43}{7}$
U 6 **G** $\frac{79}{10}$ **L** $\frac{23}{7}$ **T** 27 **E** $\frac{19}{5}$
W $\frac{44}{3}$ **A** $\frac{47}{5}$ **M** 25

LEGEND



Add or subtract. Leave your answer as either an improper fraction or a whole number:

① $\frac{32}{5} + \frac{15}{5} = \frac{47}{5}$ **A**

② $\frac{51}{2} - \frac{39}{2} = 6$ **U**

③ $\frac{19}{7} + \frac{24}{7} = \frac{43}{7}$ **D**

④ $\frac{61}{4} + \frac{39}{4} = 25$ **M**

⑤ $\frac{73}{3} - \frac{29}{3} = \frac{44}{3}$ **W**

⑥ $\frac{56}{6} + \frac{3}{6} = \frac{59}{6}$ **B**

⑦ $\frac{93}{10} - \frac{14}{10} = \frac{79}{10}$ **G**

⑧ $\frac{47}{7} - \frac{25}{7} = \frac{22}{7}$ **N**

⑨ $\frac{16}{5} + \frac{3}{5} = \frac{19}{5}$ **E**

⑩ $\frac{21}{6} + \frac{21}{6} = 7$ **I**

⑪ $\frac{91}{3} - \frac{71}{3} = \frac{20}{3}$ **S**

⑫ $\frac{39}{2} + \frac{15}{2} = 27$ **T**

I **G** **U** **E** **S** **S** **I** **T** **W** **A** **S** **N** **T** **M** **I** **N** **T** **T** **O** **B** **E**

Skill: Adding and subtracting improper fractions (same denominator)
CCSS: 4.NF.B.3.C

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What did the T-Rex say about the plant-eating dinosaur?

DIRECTIONS Solve the following problems and match your answers to the answers in the **Legend**. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.
Note: The problem numbers match the numbered rectangles.

N 6 **O** $7\frac{1}{6}$ **T** $7\frac{2}{3}$ **H** $7\frac{2}{4}$ **B** $5\frac{7}{10}$ **M** $8\frac{1}{3}$
I $8\frac{5}{8}$ **R** $6\frac{1}{5}$ **E** $7\frac{2}{6}$ **V** $6\frac{2}{10}$

LEGEND

Solve the following problems. Leave your answer as a mixed number.

- ① $5\frac{1}{3} + 2\frac{1}{3} =$ $7\frac{2}{14}$ **T** ② $3\frac{4}{10} + 2\frac{3}{10} =$ $5\frac{7}{10}$ **B** ③ $2\frac{2}{5} + 3\frac{3}{5} =$ **6 N**
④ $1\frac{2}{6} + 5\frac{5}{6} =$ $7\frac{1}{6}$ **O** ⑤ $4\frac{1}{4} + 3\frac{1}{4} =$ $7\frac{2}{4}$ **H** ⑥ $7\frac{2}{3} + \frac{2}{3} =$ $8\frac{1}{3}$ **M**
⑦ $3\frac{3}{8} + 5\frac{2}{8} =$ $8\frac{5}{8}$ **I** ⑧ $4\frac{5}{10} + 1\frac{7}{10} =$ $6\frac{1}{10}$ **V** ⑨ $1\frac{2}{5} + 4\frac{4}{5} =$ $6\frac{1}{5}$ **R**
⑩ $3\frac{5}{6} + 3\frac{3}{6} =$ $7\frac{2}{6}$ **E**

I V E N E V E R M E T H E R - B I V O R E
7 8 10 3 10 8 10 9 6 10 1 5 10 9 2 7 8 4 9 10

Skill: Adding mixed numbers (same denominator)
CCSS: 4.NF.B.3.C

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What did one piece of leftover food say to the other?

DIRECTIONS Solve the following problems and match your answers to the answers in the **Legend**. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.
Note: The problem numbers match the numbered rectangles.

T $10\frac{1}{2}$ **R** $2\frac{1}{4}$ **O** $1\frac{1}{3}$ **B** $6\frac{3}{4}$ **N** $7\frac{1}{5}$
H $9\frac{4}{6}$ **D** $8\frac{1}{2}$ **L** $8\frac{5}{6}$ **E** $9\frac{2}{9}$ **U** $4\frac{1}{6}$
Y $3\frac{4}{5}$ **C** $2\frac{3}{10}$ **M** $5\frac{7}{10}$ **F** $7\frac{1}{3}$

LEGEND

Convert each improper fraction to a mixed number:

- ① $\frac{57}{10} =$ $5\frac{7}{10}$ **M** ② $\frac{19}{5} =$ $3\frac{4}{5}$ **Y** ③ $\frac{22}{3} =$ $7\frac{1}{3}$ **F**
④ $\frac{17}{2} =$ $8\frac{1}{2}$ **D** ⑤ $\frac{58}{6} =$ $9\frac{4}{6}$ **H** ⑥ $\frac{36}{5} =$ $7\frac{1}{5}$ **N**
⑦ $\frac{23}{10} =$ $2\frac{3}{10}$ **C** ⑧ $\frac{21}{2} =$ $10\frac{1}{2}$ **T** ⑨ $\frac{27}{4} =$ $6\frac{3}{4}$ **B**
⑩ $\frac{25}{6} =$ $4\frac{1}{6}$ **U** ⑪ $\frac{83}{9} =$ $9\frac{2}{9}$ **E** ⑫ $\frac{4}{3} =$ $1\frac{1}{3}$ **O**
⑬ $\frac{9}{4} =$ $2\frac{1}{4}$ **R**

D O Y O U C R U M B H E R E O F T E N ?
4 12 2 12 10 7 13 10 1 9 5 11 13 11 12 3 8 11 6

Skill: Converting an improper fraction to a mixed number
CCSS: 4.NF.B.3.C

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Why was the bear disappointed with his sports performance?

DIRECTIONS Solve the following problems and match your answers to the answers in the Legend. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.
Note: The problem numbers match the numbered rectangles.

D $\frac{27}{4}$	A $\frac{74}{9}$	L $\frac{41}{6}$	I $\frac{27}{5}$	A $\frac{14}{5}$	I $\frac{25}{6}$
W $\frac{31}{9}$	E $\frac{5}{3}$	A $\frac{29}{4}$	D $\frac{11}{8}$	F $\frac{63}{8}$	S $\frac{19}{5}$
O $\frac{5}{2}$	H $\frac{31}{3}$	K $\frac{39}{10}$	S $\frac{39}{4}$	E $\frac{93}{10}$	

LEGEND

Convert each mixed number to an improper fraction:

- | | | | |
|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------------------|
| ① $5\frac{2}{5}$ $\frac{27}{5}$ I | ② $3\frac{4}{9}$ $\frac{31}{9}$ W | ③ $7\frac{7}{8}$ $\frac{63}{8}$ F | ④ $1\frac{2}{3}$ $\frac{5}{3}$ E |
| ⑤ $6\frac{5}{6}$ $\frac{41}{6}$ L | ⑥ $9\frac{3}{4}$ $\frac{39}{4}$ S | ⑦ $2\frac{1}{2}$ $\frac{5}{2}$ O | ⑧ $9\frac{3}{10}$ $\frac{93}{10}$ E |
| ⑨ $7\frac{1}{4}$ $\frac{29}{4}$ A | ⑩ $3\frac{4}{5}$ $\frac{19}{5}$ S | ⑪ $8\frac{2}{9}$ $\frac{74}{9}$ B | ⑫ $10\frac{1}{3}$ $\frac{31}{3}$ H |
| ⑬ $2\frac{4}{5}$ $\frac{14}{5}$ A | ⑭ $6\frac{3}{4}$ $\frac{27}{4}$ D | ⑮ $1\frac{3}{8}$ $\frac{11}{8}$ D | ⑯ $3\frac{9}{10}$ $\frac{39}{10}$ K |
| ⑰ $4\frac{1}{6}$ $\frac{25}{6}$ I | | | |

H E W A S D I S - K O A L A - F I E D
12 4 2 11 6 15 1 10 16 7 13 5 9 3 17 8 14

Skill: Converting a mixed number to an improper fraction
CCSS: 4.NF.B.3.C

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What did the pickle say when he was accused of being sour?

DIRECTIONS Solve the following problems and match your answers to the answers in the Legend. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.
Note: The problem numbers match the numbered rectangles.

W $\frac{6}{7}$	L $2\frac{7}{9}$	B $7\frac{3}{4}$	H $1\frac{7}{9}$	S $\frac{2}{3}$	T $3\frac{2}{3}$
A $1\frac{3}{4}$	G $4\frac{1}{2}$	E $3\frac{4}{5}$	I $\frac{1}{2}$	D $2\frac{4}{5}$	

LEGEND

Use regrouping to solve the following problems. Express your answer in lowest terms.

- | | | | |
|---|---|---|---|
| ① $6\frac{1}{4} - 1\frac{3}{4}$
$4\frac{1}{2}$ G | ② $6\frac{1}{3} - 5\frac{2}{3}$
$\frac{2}{3}$ S | ③ $7\frac{2}{5} - 3\frac{3}{5}$
$3\frac{4}{5}$ E | ④ $2\frac{3}{8} - \frac{5}{8}$
$1\frac{3}{4}$ A |
| ⑤ $9\frac{1}{5} - 6\frac{2}{5}$
$2\frac{4}{5}$ D | ⑥ $5\frac{2}{7} - 4\frac{3}{7}$
$\frac{6}{7}$ W | ⑦ $9\frac{3}{8} - 1\frac{5}{8}$
$7\frac{3}{4}$ B | ⑧ $4\frac{2}{9} - 2\frac{4}{9}$
$1\frac{7}{9}$ H |
| ⑨ $5\frac{1}{3} - 1\frac{2}{3}$
$3\frac{2}{3}$ T | ⑩ $5\frac{5}{9} - 2\frac{7}{9}$
$2\frac{7}{9}$ L | ⑪ $8 - 7\frac{1}{2}$
$\frac{1}{2}$ I | |

W H A T S T H E B I G D I L L ?
6 8 4 9 2 9 8 3 7 11 1 5 11 10 10

Skill: Subtracting fractions with regrouping (same denominator)
CCSS: 4.NF.B.3.C

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What did the vegetables say when they were thrown into the pot?



Solve the following problems and match your answers to the answers in the Legend. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.
Note: The problem numbers match the numbered rectangles.

D 93 **N** $\frac{4}{5}$ **O** 2 **L** $6\frac{2}{5}$ **I** $4\frac{1}{2}$
C $2\frac{1}{4}$ **T** $3\frac{2}{3}$ **R** $12\frac{1}{2}$ **A** $3\frac{1}{2}$

LEGEND



Use regrouping to solve the following problems. Express your answer in lowest terms.

- ① Frank filled a measuring cup with $\frac{2}{3}$ cups of water. How much water will be in the measuring cup if he adds $1\frac{1}{3}$ more cups?
20 cups
- ② Cooper recycled $13\frac{7}{8}$ lbs of bottles last week. If he recycles $11\frac{5}{8}$ lbs of bottles this week, how much more did he recycle last week than this week? _____ lbs **$2\frac{1}{4}$ C**
- ③ David is $42\frac{3}{4}$ inches tall. Stephen is $38\frac{1}{4}$ inches tall. How much taller is David than Stephen? _____ inches
 $4\frac{1}{2}$ I
- ④ The length of a sandbox is $4\frac{1}{5}$ ft. The width is $3\frac{2}{5}$ ft. What is the difference between the length and the width of the sandbox? _____ ft. **$\frac{4}{5}$ N**
- ⑤ A school bus drove $43\frac{3}{10}$ miles on its morning route. It drove $49\frac{7}{10}$ miles on its afternoon route. How many total miles did the school bus drive? **930** miles
- ⑥ In problem 5 to the left, how much longer is the school bus' afternoon route than its morning route? **$6\frac{2}{5}$ L** miles
- ⑦ Aiden spent $1\frac{1}{3}$ hours working on his reading project. Then he spent $2\frac{1}{3}$ hours working on his science project. How much total time did he spend working on his school projects? _____ hours
 $3\frac{2}{3}$ T
- ⑧ Jenna had a bucket of sand weighing $15\frac{3}{4}$ lbs. If she dumps $3\frac{1}{4}$ lbs of sand out, how much will the bucket weigh? _____ lbs **$12\frac{1}{2}$ R**
- ⑨ On Thursday it rained $1\frac{1}{8}$ inches. On Friday it rained $2\frac{3}{8}$ inches. How many inches did it rain in all? _____ inches **$3\frac{1}{2}$ A**

I **D** **O** **N** **'** **T** **C** **A** **R** **R** **O** **T** **A** **L**
3 5 1 4 7 2 9 8 8 1 7 9 6 6

Skill: Adding and subtracting fractions, word problems (same denominator)
CCSS: 4.NF.B.3.D

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Which comic character loves to eat clam chowder?



Solve the following problems and match your answers to the answers in the Legend. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.
Note: The problem numbers match the numbered rectangles.

A $3\frac{1}{9}$ **O** $1\frac{1}{3}$ **N** 3 **P** $2\frac{1}{4}$ **U** $1\frac{2}{4}$ **R** $3\frac{3}{5}$
T $4\frac{2}{3}$ **S** $1\frac{3}{7}$ **M** $1\frac{2}{10}$ **E** 2

LEGEND



Use the visual model to solve the problem:

- ① $\frac{2}{5} \times 5 =$ **2 E**
- ② $\frac{1}{3} \times 4 =$ **$1\frac{1}{3}$ O**
- ③ $\frac{1}{2} \times 6 =$ **3 N**
- ④ $\frac{3}{4} \times 2 =$ **$1\frac{2}{4}$ U**
- ⑤ $\frac{3}{10} \times 4 =$ **$1\frac{2}{10}$ M**
- ⑥ $\frac{2}{7} \times 5 =$ **$1\frac{3}{7}$ S**
- ⑦ $\frac{4}{9} \times 7 =$ **$3\frac{1}{9}$ A**
- ⑧ $\frac{3}{5} \times 6 =$ **$3\frac{3}{5}$ R**
- ⑨ $\frac{1}{4} \times 9 =$ **$2\frac{1}{4}$ P**

S **O** **U** **P** **E** **R** **M** **A** **N**
6 2 4 9 1 8 5 7 3

Skill: Multiplying fractions by whole numbers – visual
CCSS: 4.NF.B.4.A

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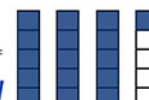
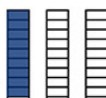

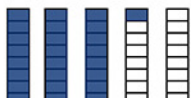



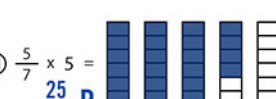
What did the grapes say while dancing in the heat?

DIRECTIONS Solve the following problems and match your answers to the answers in the Legend. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.
Note: The problem numbers match the numbered rectangles.

W $\frac{16}{5}$ S $\frac{6}{2}$ A $\frac{15}{8}$ I $\frac{15}{12}$ N $\frac{25}{8}$ T $\frac{9}{10}$
O $\frac{7}{2}$ R $\frac{25}{7}$ H $\frac{12}{7}$ F $\frac{21}{4}$ E $\frac{6}{5}$

LEGEND

Use the visual model to solve the problem. Leave your answer as an improper fraction:

① $\frac{3}{8} \times 5 =$  $\frac{15}{8}$ A	② $\frac{3}{4} \times 7 =$  $\frac{21}{4}$ F	
③ $\frac{1}{2} \times 6 =$  $\frac{6}{2}$ S	④ $\frac{4}{5} \times 4 =$  $\frac{16}{5}$ W	
⑤ $\frac{3}{10} \times 3 =$  $\frac{9}{10}$ T	⑥ $\frac{3}{7} \times 4 =$  $\frac{12}{7}$ H	
⑦ $\frac{5}{8} \times 5 =$  $\frac{25}{8}$ N	⑧ $\frac{1}{2} \times 7 =$  $\frac{7}{2}$ O	
⑨ $\frac{5}{12} \times 3 =$  $\frac{15}{12}$ I	⑩ $\frac{3}{5} \times 2 =$  $\frac{6}{5}$ E	⑪ $\frac{5}{7} \times 5 =$  $\frac{25}{7}$ R

WE'RE RAISIN THE ROOF!

Skill: Multiplying fractions by whole numbers – visual, bar
CCSS: 4.NF.B.4.A

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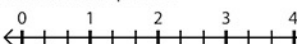
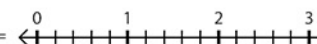
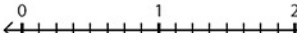
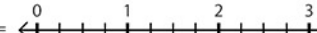







Why was the man who was hit with a soda lucky?

DIRECTIONS Solve the following problems and match your answers to the answers in the Legend. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.
Note: The problem numbers match the numbered rectangles.

N $1\frac{6}{8}$ A $1\frac{2}{10}$ S $1\frac{3}{4}$ R $1\frac{3}{6}$ W $1\frac{4}{5}$ T $2\frac{3}{5}$
F $3\frac{1}{3}$ O $2\frac{1}{3}$ D $2\frac{1}{4}$ I $2\frac{1}{7}$ K $1\frac{4}{7}$

LEGEND

Use the number lines to solve each problem:

① $\frac{1}{3} \times 7 =$  $2\frac{1}{3}$ O	② $\frac{1}{5} \times 9 =$  $1\frac{4}{5}$ W
③ $\frac{1}{8} \times 14 =$  $1\frac{6}{8}$ N	④ $\frac{1}{4} \times 9 =$  $2\frac{1}{4}$ D
⑤ $\frac{1}{7} \times 11 =$  $1\frac{4}{7}$ K	⑥ $\frac{1}{3} \times 10 =$  $3\frac{1}{3}$ F
⑦ $\frac{1}{6} \times 9 =$  $1\frac{3}{6}$ R	⑧ $\frac{1}{5} \times 13 =$  $2\frac{3}{5}$ T
⑨ $\frac{1}{10} \times 12 =$  $1\frac{2}{10}$ A	⑩ $\frac{1}{7} \times 15 =$  $2\frac{1}{7}$ B
⑪ $\frac{1}{4} \times 7 =$  $1\frac{3}{4}$ S	

IT WAS A SOFT DRINK

Skill: Multiplying unit fractions with a number line
CCSS: 4.NF.B.4.A

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Why did no one like working with the pear on projects?



Solve the following problems and match your answers to the answers in the Legend. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.
Note: The problem numbers match the numbered rectangles.

F $6 \times \frac{1}{5}$	S $45 \times \frac{1}{7}$	U $21 \times \frac{1}{8}$	E $28 \times \frac{1}{9}$
W $10 \times \frac{1}{5}$	P $27 \times \frac{1}{11}$	H $18 \times \frac{1}{11}$	N $14 \times \frac{1}{9}$
A $40 \times \frac{1}{8}$	C $8 \times \frac{1}{5}$	O $39 \times \frac{1}{5}$	I $20 \times \frac{1}{7}$
R $24 \times \frac{1}{5}$	T $30 \times \frac{1}{3}$	M $12 \times \frac{1}{7}$	

LEGEND

Create an equivalent problem with a unit fraction:

- | | | |
|---|--|--|
| ① $3 \times \frac{7}{8} = 21 \times \frac{1}{8} \text{ U}$ | ② $5 \times \frac{2}{5} = 10 \times \frac{1}{5} \text{ W}$ | ③ $2 \times \frac{3}{5} = 6 \times \frac{1}{5} \text{ F}$ |
| ④ $7 \times \frac{2}{9} = 14 \times \frac{1}{9} \text{ N}$ | ⑤ $4 \times \frac{3}{7} = 12 \times \frac{1}{7} \text{ M}$ | ⑥ $9 \times \frac{3}{11} = 27 \times \frac{1}{11} \text{ P}$ |
| ⑦ $12 \times \frac{2}{5} = 24 \times \frac{1}{5} \text{ R}$ | ⑧ $6 \times \frac{3}{11} = 18 \times \frac{1}{11} \text{ H}$ | ⑨ $10 \times \frac{2}{7} = 20 \times \frac{1}{7} \text{ I}$ |
| ⑩ $2 \times \frac{4}{5} = 8 \times \frac{1}{5} \text{ C}$ | ⑪ $14 \times \frac{2}{9} = 28 \times \frac{1}{9} \text{ E}$ | ⑫ $8 \times \frac{5}{8} = 40 \times \frac{1}{8} \text{ A}$ |
| ⑬ $15 \times \frac{2}{3} = 30 \times \frac{1}{3} \text{ T}$ | ⑭ $9 \times \frac{5}{7} = 45 \times \frac{1}{7} \text{ S}$ | ⑮ $13 \times \frac{3}{5} = 39 \times \frac{1}{5} \text{ O}$ |

S H E W A S T O O M U C H O F A P E A R - F E C T I O N I S T

Skill: Creating equivalent unit fraction problems
CCSS: 4.NF.B.4.B

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What did the umpire say to the angry baseball player?



Solve the following problems and match your answers to the answers in the Legend. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.
Note: The problem numbers match the numbered rectangles.

S 25	B 2	O 12	F $4 \frac{1}{2}$	E 30	Y $1 \frac{1}{2}$
A $7 \frac{1}{2}$	L $5 \frac{1}{2}$	W 6	R 15	U 4	

LEGEND

- | | |
|--|---|
| ① A pile of dirt weighed 6 pounds. Jonathan put $\frac{2}{3}$ of the dirt pile in a bucket. How much did the dirt in the bucket weigh?
<u>4 U</u> lbs | ② $\frac{1}{5}$ of the students in Mrs. May's class prefer chocolate chip cookies over sugar cookies. If there are 30 students in the class, how many students prefer chocolate chip cookies? <u>6 W</u> students |
| ③ $\frac{5}{8}$ of the pens in the box are red. If there are 40 pens in the box, how many of them are red? <u>25 S</u> pens | ④ 20 taekwondo students tested to receive their blackbelt and $\frac{3}{4}$ of them passed. How many students earned a blackbelt? <u>15 R</u> students |
| ⑤ Philip ran 8 miles on Monday. The next day he ran $\frac{1}{4}$ as many miles. How many miles did he run on Tuesday?
<u>2 B</u> miles | ⑥ Shannon baked a cake with 3 cups of sugar. If she wants to bake a cake half that size, how many cups of sugar does she need?
_____ cups <u>$1 \frac{1}{2}$ Y</u> |
| ⑦ 16 kids each received $\frac{3}{4}$ lbs of candy. What is the total amount of candy they received? <u>12 O</u> lbs | ⑧ Greg stacked 6 books, each being $\frac{3}{4}$ inch tall. How tall was his pile of books? _____ inches <u>$4 \frac{1}{2}$ F</u> |
| ⑨ $\frac{5}{6}$ of the flowers in a vase were daisies. If there were 36 flowers in the vase, how many of them were daisies? <u>30 E</u> flowers | ⑩ A box of juice weighs $\frac{1}{2}$ lb. How much does a pack of 15 juice boxes weigh? _____ lbs <u>$7 \frac{1}{2}$ A</u> |

Y O U ' R E W A Y O F F B A S E

Skill: Multiplying fractions by whole numbers – word problems
CCSS: 4.NF.B.4.C

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Why did the calendar factory worker get fired?



Solve the following problems and match your answers to the answers in the Legend. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.
Note: The problem numbers match the numbered rectangles.

H $\frac{77}{100}$	E $\frac{92}{100}$	D $\frac{30}{100}$	T $\frac{79}{100}$	Y $\frac{55}{100}$
F $\frac{29}{100}$	O $\frac{69}{100}$	M $\frac{88}{100}$	A $\frac{35}{100}$	P $\frac{91}{100}$
O $\frac{52}{100}$	O $\frac{78}{100}$	K $\frac{54}{100}$	A $\frac{82}{100}$	

LEGEND

Find the sum after converting tenths to hundredths:

- | | | | |
|--|--|--|--|
| ① $\frac{2}{10} + \frac{15}{100}$
$\frac{35}{100}$ B | ② $\frac{7}{10} + \frac{8}{100}$
$\frac{78}{100}$ O | ③ $\frac{19}{100} + \frac{1}{10}$
$\frac{29}{100}$ F | ④ $\frac{32}{100} + \frac{6}{10}$
$\frac{92}{100}$ E |
| ⑤ $\frac{8}{10} + \frac{2}{100}$
$\frac{82}{100}$ A | ⑥ $\frac{1}{10} + \frac{44}{100}$
$\frac{54}{100}$ K | ⑦ $\frac{71}{100} + \frac{2}{10}$
$\frac{91}{100}$ F | ⑧ $\frac{3}{10} + \frac{22}{100}$
$\frac{52}{100}$ O |
| ⑨ $\frac{37}{100} + \frac{4}{10}$
$\frac{1}{100}$ B | ⑩ $\frac{6}{10} + \frac{19}{100}$
$\frac{1}{100}$ B | ⑪ $\frac{5}{10} + \frac{5}{100}$
$\frac{1}{100}$ B | ⑫ $\frac{2}{10} + \frac{49}{100}$
$\frac{1}{100}$ B |
| ⑬ $\frac{2}{10} + \frac{10}{100}$
$\frac{30}{100}$ D | | | |

H E T O O K A D A Y O F F

Skill: Expressing a fraction with denominator 10 as a fraction with denominator 100
CCSS: 4.NF.C.5

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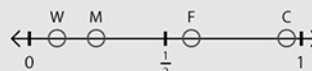
NAME: _____ DATE: _____

What did the librarian say when the books were a mess?

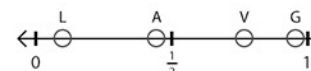


Solve the following problems. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.
Note: The problem numbers match the numbered rectangles.

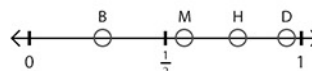
Use the number lines to answer the following questions:



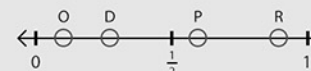
- ① Which letter best represents 0.6? **F**
② Which letter best represents 0.05? **W**



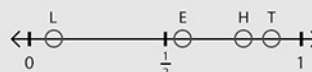
- ③ Which letter best represents 0.75? **V**
④ Which letter best represents 0.96? **G**



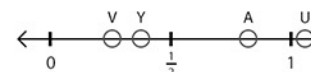
- ⑤ Which letter best represents 0.55? **M**
⑥ Which letter best represents 0.25? **B**



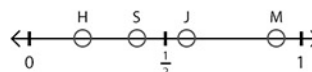
- ⑦ Which letter best represents 0.3? **D**
⑧ Which letter best represents 0.8? **R**



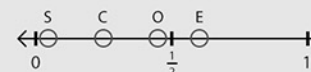
- ⑨ Which letter best represents 0.1? **L**
⑩ Which letter best represents 0.83? **T**



- ⑪ Which letter best represents 1.10? **U**
⑫ Which letter best represents 0.77? **A**



- ⑬ Which letter best represents 0.41? **S**
⑭ Which letter best represents 0.2? **H**



- ⑮ Which letter best represents 0.45? **O**
⑯ Which letter best represents 0.6? **E**

W E O U G H T T O B E A S H A M E D O F O U R S H E L V E S

Skill: Finding decimals on a number line
CCSS: 4.NF.C.5

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NAME: _____ DATE: _____

Where do tyrannosaurus rexes get their groceries?

DIRECTIONS Solve the following problems and match your answers to the answers in the **Legend**. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.
Note: The problem numbers match the numbered rectangles.

S $\frac{12}{100}$	R $\frac{45}{100}$	O $\frac{9}{10}$	N $\frac{33}{100}$	E $\frac{7}{10}$
E $\frac{8}{10}$	T $\frac{1}{10}$	O $\frac{65}{100}$	D $\frac{77}{100}$	
T $\frac{2}{10}$	H $\frac{93}{100}$	I $\frac{69}{100}$	P $\frac{22}{100}$	LEGEND

Convert the following decimals to fractions:

- | | | |
|---------------------------|------------------------|---------------------------|
| ① 0.65 $\frac{65}{100}$ O | ② 0.8 $\frac{8}{10}$ E | ③ 0.33 $\frac{33}{100}$ N |
| ④ 0.12 $\frac{12}{100}$ S | ⑤ 0.1 $\frac{1}{10}$ T | ⑥ 0.77 $\frac{77}{100}$ D |
| ⑦ 0.45 $\frac{45}{100}$ R | ⑧ 0.7 $\frac{7}{10}$ E | ⑨ 0.2 $\frac{2}{10}$ T |
| ⑩ 0.93 $\frac{93}{100}$ H | ⑪ 0.9 $\frac{9}{10}$ O | ⑫ 0.69 $\frac{69}{100}$ I |

T H E D I N O S T O R E
5 10 2 6 12 3 11 4 9 1 7 8

Skill: Converting decimals to fractions
CCSS: 4.NF.C.6

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Why do French people eat snails?

DIRECTIONS Solve the following problems and match your answers to the answers in the **Legend**. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.
Note: The problem numbers match the numbered rectangles.

T $\frac{3}{10}$	A 0.1	O 0.53	N $\frac{2}{10}$	T $\frac{34}{100}$
A $\frac{8}{10}$	O $\frac{6}{10}$	W 0.3	T 0.05	E 0.71
O $\frac{5}{100}$	D 0.34	T $\frac{71}{100}$	S $\frac{53}{100}$	F 0.6
H 0.2	F $\frac{99}{100}$	E 0.99	Y 0.8	LEGEND

Determine the value represented by the shaded portion in each graph and write it as either a fraction or decimal:

① Fraction: $\frac{2}{10}$ N	③ Fraction: $\frac{53}{100}$ S	⑤ Fraction: $\frac{8}{10}$ A	⑦ Fraction: $\frac{6}{10}$ O	⑨ Fraction: $\frac{71}{100}$ T
② Decimal: 0.2 H	④ Decimal: 0.53 O	⑥ Decimal: 0.8 Y	⑧ Decimal: 0.6 F	⑩ Decimal: 0.71 E
⑪ Fraction: $\frac{34}{100}$ T	⑬ Fraction: $\frac{3}{10}$ T	⑮ Fraction: $\frac{99}{100}$ F	⑰ Fraction: $\frac{5}{100}$ O	⑲ Decimal: 0.1 A
⑫ Decimal: 0.34 D	⑭ Decimal: 0.3 W	⑯ Decimal: 0.99 E	⑱ Decimal: 0.05 T	

T H E Y W O N ' T E A T F A S T F O O D
13 2 10 6 14 7 1 11 16 5 9 15 19 3 18 8 17 4 12

Skill: Finding equivalent fractions and decimals, visual
CCSS: 4.NF.C.6

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What did the woman say when she cleaned out her spice rack?



DIRECTIONS Solve the following problems and match your answers to the answers in the Legend. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.
Note: The problem numbers match the numbered rectangles.

F 0.86	T 0.03	S 0.99	R 0.05	W 0.09
M 0.36	A 0.1	H 0.77	W 0.72	A 0.01
T 0.7	Y 0.3	T 0.51	O 0.45	
A 0.9	E 0.69	H 0.07	E 0.39	

LEGEND

Convert the following fractions to decimals:

- | | | | |
|----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| 1 $\frac{45}{100}$ <u>0.45</u> O | 2 $\frac{9}{10}$ <u>0.9</u> A | 3 $\frac{77}{100}$ <u>0.77</u> H | 4 $\frac{36}{100}$ <u>0.36</u> M |
| 5 $\frac{9}{100}$ <u>0.09</u> W | 6 $\frac{1}{10}$ <u>0.1</u> A | 7 $\frac{51}{100}$ <u>0.51</u> T | 8 $\frac{69}{100}$ <u>0.69</u> E |
| 9 $\frac{86}{100}$ <u>0.86</u> F | 10 $\frac{1}{100}$ <u>0.01</u> A | 11 $\frac{3}{10}$ <u>0.3</u> Y | 12 $\frac{39}{100}$ <u>0.39</u> E |
| 13 $\frac{3}{100}$ <u>0.03</u> T | 14 $\frac{72}{100}$ <u>0.72</u> W | 15 $\frac{99}{100}$ <u>0.99</u> S | 16 $\frac{7}{10}$ <u>0.7</u> T |
| 17 $\frac{7}{100}$ <u>0.07</u> H | | | |

WHAT A WASTE OF THYME

Skill: Converting fractions to decimals (tenths and hundredths)
CCSS: 4.NF.C.6

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NAME: _____ DATE: _____

What was the football coach yelling at the vending machine?



DIRECTIONS Solve the following problems in the sections below. Then record the corresponding letter of the correct answer in the rectangles at the bottom to answer the riddle.
Note: The problem numbers match the numbered rectangles.

Choose the symbol that correctly compares the numbers:

- | | | |
|---------------------------------|--------------------------------|---------------------------------|
| 1 4.35 < 4.52
A < F > C = | 2 9.6 > 9.06
S < M > R = | 3 3.3 < 3.7
C < X > O = |
| 4 2.2 = 2.20
C < A > I = | 5 7.6 > 7.36
L < E > P = | 6 12.71 < 12.9
Y < E > T = |
| 7 1.99 > 1.09
R < B > S = | 8 3.70 = 3.7
V < R > M = | 9 90.01 < 90.1
R < O > P = |
| 10 5.54 > 5.15
B < M > V = | 11 6.00 > 5.99
H < K > E = | 12 12.77 < 12.97
G < S > C = |
| 13 9.5 = 9.50
T < H > U = | 14 11.1 > 11.01
I < A > O = | 15 6.37 < 6.73
R < S > L = |
| 16 10.37 > 10.17
S < E > O = | 17 0.7 = 0.70
L < F > T = | 18 5.9 > 5.71
K < Q > M = |

GIMME MY QUARTER BACK!

Skill: Comparing decimals
CCSS: 4.NF.C.6

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NAME: _____ DATE: _____

What do you call an alligator with a vest on?



Solve the following problems in the sections below. Then record the corresponding letter of the correct answer in the rectangles at the bottom to answer the riddle.
Note: The problem numbers match the numbered rectangles.

- 1 Which number has the **least** value?
A 3.21 S 32.1 **E 3.12** G 3.22
- 2 Which number has the **least** value?
M 15.2 **R 5.12** L 15.25 P 21.5
- 3 Which number has the **least** value?
G 7.25 J 7.52 A 75.2 **V 0.725**
- 4 Which number has the **least** value?
L 92.5 S 925 **G 5.92** B 59.2
- 5 Which number has the **least** value?
S 0.286 R 2.68 L 2.86 A 6.28
- 6 Which number has the **greatest** value?
E 7.99 I 9.77 **O 97.7** V 77.9
- 7 Which number has the **greatest** value?
I 80.5 **A 85.0** O 5.80 P 58.0
- 8 Which number has the **greatest** value?
I 65.3 D 63.5 R 56.3 H 53.6
- 9 Which number has the **greatest** value?
L 70.3 **T 73.0** P 37.0 M 30.7
- 10 Sam finished a race in 9.2 min. Jill finished the race in 9.6 min. Ava finished the race in 8.3 min. Tim finished the race in 6.5 min. Who finished in the least amount of time?
A Sam S Jill E Ava **N Tim**

A N I N - V E S T - I - G A T O R
7 10 8 10 3 1 5 9 8 4 7 9 6 2

Skill: Determining greatest and least value
CCSS: 4.NF.C.7

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NAME: _____ DATE: _____

Which animal should you never give your uncle?



Solve the following problems in the sections below. Then record the corresponding letter of the correct answer in the rectangles at the bottom to answer the riddle.
Note: The problem numbers match the numbered rectangles.

- 1 Which shows the correct order from least to greatest?
B 4.25, 1.77, 3.66, 2.79 **A 7.3, 7.55, 7.6, 7.91**
R 5.36, 2.75, 9.61, 9.66
- 2 Which shows the correct order from least to greatest?
N 3.05, 3.5, 3.53, 3.82 V 4.7, 4.07, 4.71, 4.3
H 5.2, 6.7, 2.3, 3.04
- 3 Which shows the correct order from least to greatest?
S 9.25, 9.52, 9.05, 9.55 **E 3.06, 3.56, 3.60, 3.65**
H 5.21, 5.12, 5.02, 5.0
- 4 Which shows the correct order from least to greatest?
L 4.20, 4.02, 4.12, 4.7 O 6.25, 6.12, 6.02, 6.67
E 7.15, 7.32, 7.59, 7.95
- 5 Which shows the correct order from least to greatest?
A 0.03, 0.05, 0.5, 5.0 I 0.5, 0.33, 0.6, 0.61
T 1.6, 1.06, 1.66, 1.71
- 6 Which shows the correct order from **greatest** to least?
L 7.25, 7.52, 7.15, 7.06 **T 9.54, 9.45, 9.4, 9.04**
P 0.77, 0.79, 0.8, 0.82
- 7 Which shows the correct order from **greatest** to least?
G 4.7, 4.2, 5.5, 5.9 T 3.7, 3.65, 3.55, 3.61
N 2.7, 2.68, 2.5, 2.43
- 8 Which shows the correct order from **greatest** to least?
E 3.36, 3.63, 3.03, 3.31 **T 5.8, 5.75, 5.57, 5.3**
B 0.77, 0.9, 1.54, 1.45
- 9 Which shows the correct order from **greatest** to least?
R 1.97, 0.97, 0.79, 0.7 L 5.36, 5.16, 4.95, 4.99
G 9.7, 9.07, 9.03, 9.3
- 10 Which shows the correct order from **greatest** to least?
O 5.33, 5.03, 5.01, 5.02 I 9.99, 9.09, 9.19, 9.01
A 6.59, 6.39, 6.04, 4.06

A N A N T E A T E R
5 7 10 2 8 4 1 6 3 9

Skill: Ordering decimals
CCSS: 4.NF.C.7

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NAME: _____ DATE: _____

Why was the belt put in prison?



Solve the following problems in the sections below. Then record the corresponding letter of the correct answer in the rectangles at the bottom to answer the riddle.
Note: The problem numbers match the numbered rectangles.

For problems 1–6, determine which sequence shows the correct order from least to greatest:

- 1 **G** \$15.37, \$15.33, \$15.70, \$15.07
L \$15.07, \$15.33, \$15.37, \$15.70
A \$15.70, \$15.07, \$15.33, \$15.37
- 2 **U** \$2.09, \$2.11, \$2.19, \$2.91
O \$2.09, \$2.91, \$2.11, \$2.19
H \$2.91, \$2.19, \$2.11, \$2.09
- 3 **S** \$19.99, \$19.97, \$19.09, \$19.19
P \$19.97, \$19.09, \$19.19, \$19.99
T \$19.09, \$19.19, \$19.97, \$19.99
- 4 **M** \$0.10, \$0.11, \$0.05, \$0.50
D \$0.05, \$0.10, \$0.11, \$0.50
P \$0.10, \$0.11, \$0.05, \$0.50
- 5 **L** \$2.21, \$2.02, \$2.01, \$2.22
S \$2.01, \$2.02, \$2.21, \$2.22
N \$2.21, \$2.01, \$2.02, \$2.22
- 6 **H** \$99.55, \$99.57, \$99.79, \$99.99
A \$99.99, \$99.55, \$99.57, \$99.79
B \$99.99, \$99.79, \$99.57, \$99.55

For problems 7–12, determine which sequence shows the correct order from greatest to least:

- 7 **B** \$0.76, \$0.66, \$0.70, \$0.80
G \$0.80, \$0.76, \$0.70, \$0.66
C \$0.66, \$0.70, \$0.76, \$0.80
- 8 **D** \$1.36, \$1.63, \$1.45, \$1.54
I \$1.63, \$1.54, \$1.45, \$1.36
F \$1.36, \$1.45, \$1.54, \$1.63
- 9 **F** \$10.51, \$10.50, \$10.15, \$10.05
P \$10.05, \$10.51, \$10.50, \$10.15
Y \$10.51, \$10.50, \$10.51, \$10.05
- 10 **R** \$7.01, \$7.03, \$7.10, \$7.13
T \$7.13, \$7.03, \$7.10, \$7.01
A \$7.13, \$7.10, \$7.03, \$7.01
- 11 **I** \$60.71, \$60.07, \$60.17, \$60.70
N \$60.77, \$60.71, \$60.70, \$60.07
P \$60.07, \$60.71, \$60.77, \$60.70
- 12 **Z** \$11.00, \$11.06, \$11.60, \$11.61
P \$11.61, \$11.06, \$11.60, \$11.00
R \$11.61, \$11.60, \$11.06, \$11.00

- 13 Finn has \$15.71, Jimmy has \$15.07, and Sam has \$15.75. Which shows their order of money from least to greatest?
C Jimmy, Finn, Sam
A Sam, Jimmy, Finn
- 14 A packet of hydrangea seeds costs \$1.50. A packet of sunflower seeds costs \$1.17. A packet of tomato seeds costs \$1.03. Which shows the seeds from greatest to least expensive?
C sunflower, hydrangea, tomato
T tomato, sunflower, hydrangea
P hydrangea, sunflower, tomato

F O R H O L D I N G U P A P A I R O F P A N T S

Skill: Ordering money, same dollar amount
CCSS: 4.NF.C.7

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NAME: _____ DATE: _____

What did the girl say when a clown held the door for her?



Solve the following problems in the sections below. Then record the corresponding letter of the correct answer in the rectangles at the bottom to answer the riddle.
Note: The problem numbers match the numbered rectangles.

For problems 1–5, determine which sequence shows the correct order from least to greatest:

- 1 **P** \$5.22, \$4.77, \$9.71, \$1.07
B \$4.77, \$9.71, \$1.07, \$5.22
N \$1.07, \$4.77, \$5.22, \$9.71
- 2 **H** \$7.07, \$5.07, \$7.18, \$5.19
S \$5.07, \$5.19, \$7.07, \$7.18
A \$7.18, \$5.07, \$7.07, \$5.19
- 3 **W** \$26.91, \$27.99, \$29.13, \$30
V \$30, \$26.91, \$27.99, \$29.13
M \$30, \$29.13, \$27.99, \$26.91
- 4 **A** \$11.01, \$11.11, \$10, \$9.95
I \$9.95, \$10, \$11.01, \$11.11
E \$10, \$9.95, \$11.01, \$11.11
- 5 **P** \$5.15, \$3.15, \$9.15, \$0.15
R \$0.15, \$3.15, \$9.15, \$5.15
J \$0.15, \$3.15, \$5.15, \$9.15

For problems 6–10, determine which sequence shows the correct order from greatest to least:

- 6 **H** \$9.99, \$9.09, \$0.99, \$0.09
O \$0.90, \$9.09, \$0.99, \$9.99
I \$9.99, \$9.09, \$0.09, \$0.99
- 7 **L** \$12.02, \$21.20, \$10.02, \$0.12
P \$0.12, \$10.02, \$21.20, \$12.02
R \$21.20, \$12.02, \$10.02, \$0.12
- 8 **B** \$5.15, \$5.26, \$2.56, \$2.51
C \$5.26, \$5.15, \$2.56, \$2.51
V \$2.51, \$2.56, \$5.15, \$5.26
- 9 **P** \$0.77, \$0.07, \$17.70, \$7.07
M \$0.07, \$0.77, \$7.07, \$17.70
T \$17.70, \$7.07, \$0.77, \$0.07
- 10 **A** \$100, \$95.17, \$19.05, \$0.76
E \$100, \$19.05, \$0.76, \$95.17
O \$0.76, \$95.17, \$100, \$19.05

Use the pizza menu on the left for problem 11:

Pizzas-R-Us

By the slice



Combo.....\$2.67
 Pepperoni.....\$2.15
 Cheese.....\$1.99
 Specialty.....\$3.00

- 11 Which shows the cost of the pizza slices in order from least to greatest?
A specialty, combo, pepperoni, cheese
O cheese, combo, specialty, pepperoni
E cheese, pepperoni, combo, specialty

W H A T A N I C E J E S T E R

Skill: Ordering money, different dollar amounts
CCSS: 4.NF.C.7

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