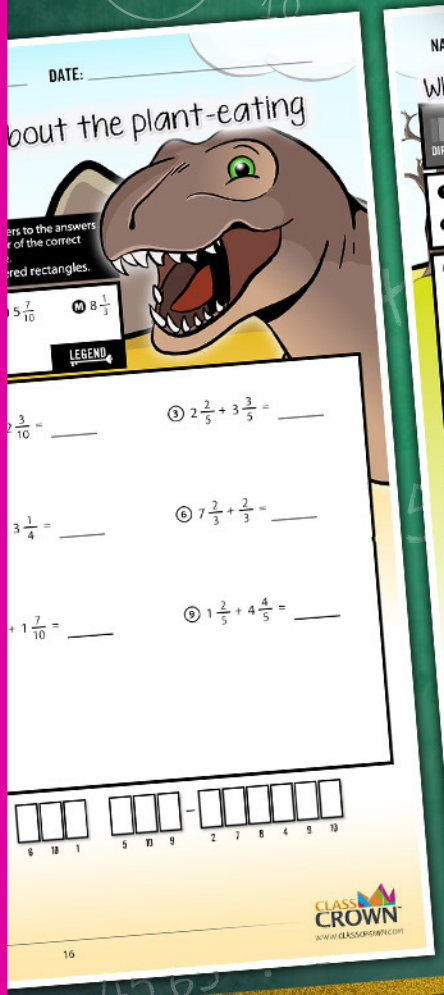
PACK
2

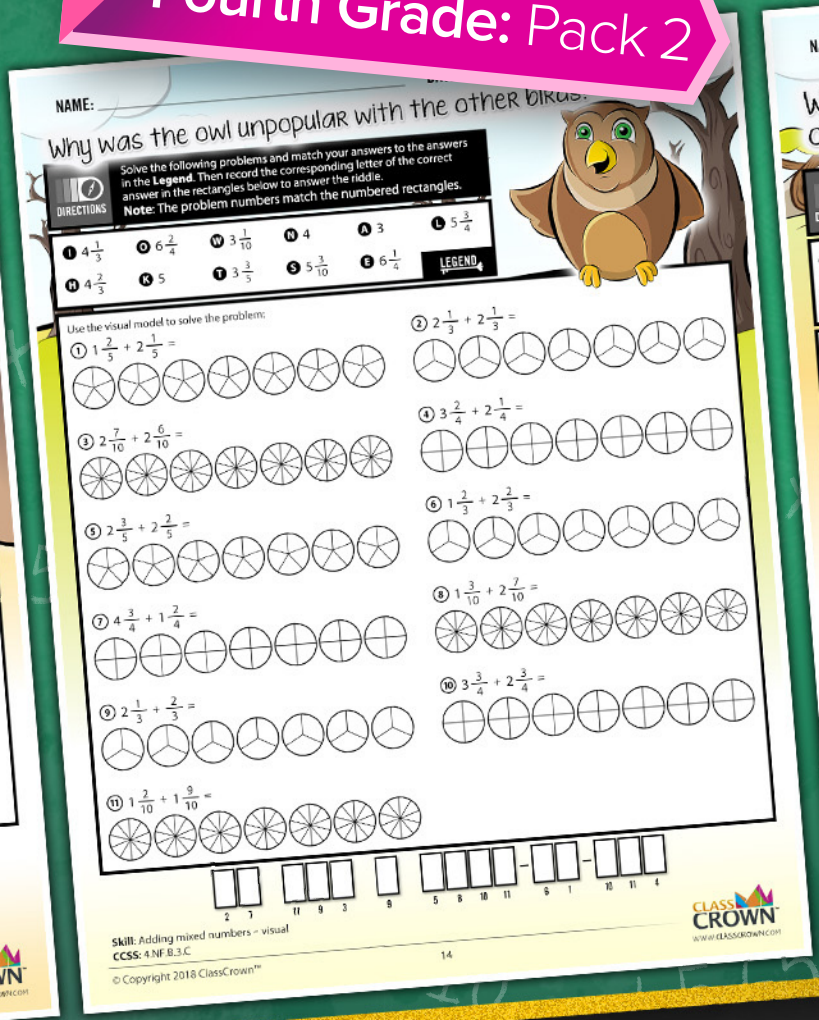
COMMON CORE ALIGNED

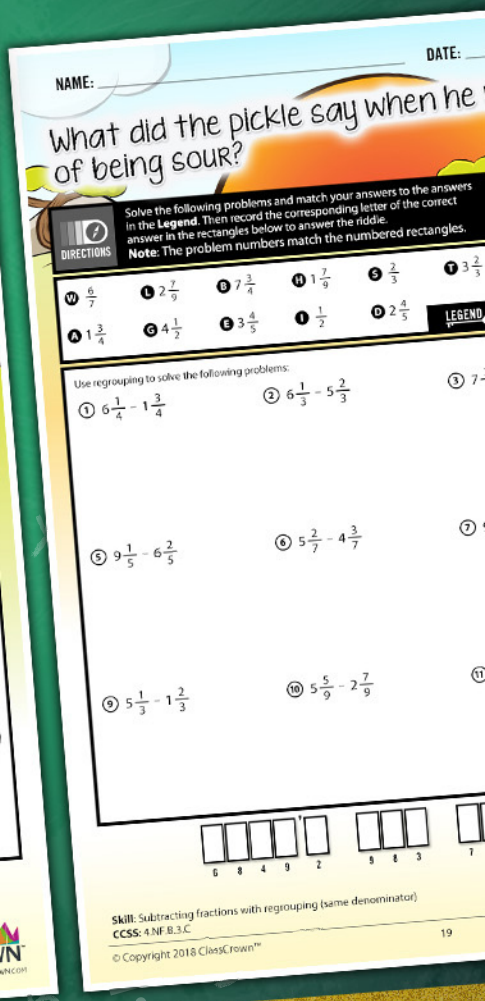
Math Series

Riddle-Me-Worksheets

Fourth Grade: Pack 2







GRADE LEVEL 4

PAGE COUNT 30

MATH SKILL

MULTI-SKILL
GRADE 4 MATH – **PACK 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

TRY THEM FOR **FREE**

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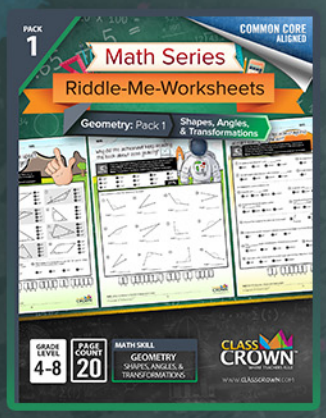
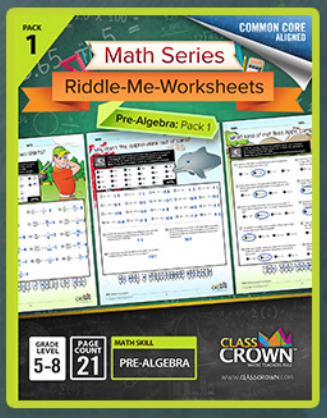


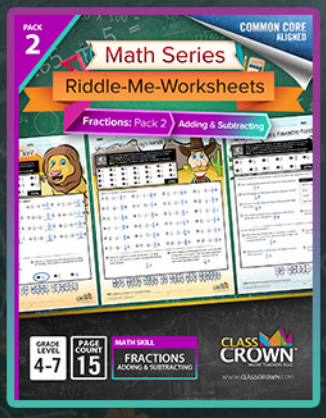
Geometry: Pack 1

Geometry: Pack 2



Pre-Algebra: Pack 1

Fractions: Pack 1



Fractions: Pack 2

Fractions: Pack 3

4th Grade: Pack 1

COLLECT THEM ALL!

Grade 4 – Pack 2: Contents

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.

LEGEND

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	

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	14	7	1	16	10	3	13	6	12	4	18	8

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

NAME: _____ DATE: _____

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.

LEGEND

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 $\frac{8}{18}$	

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

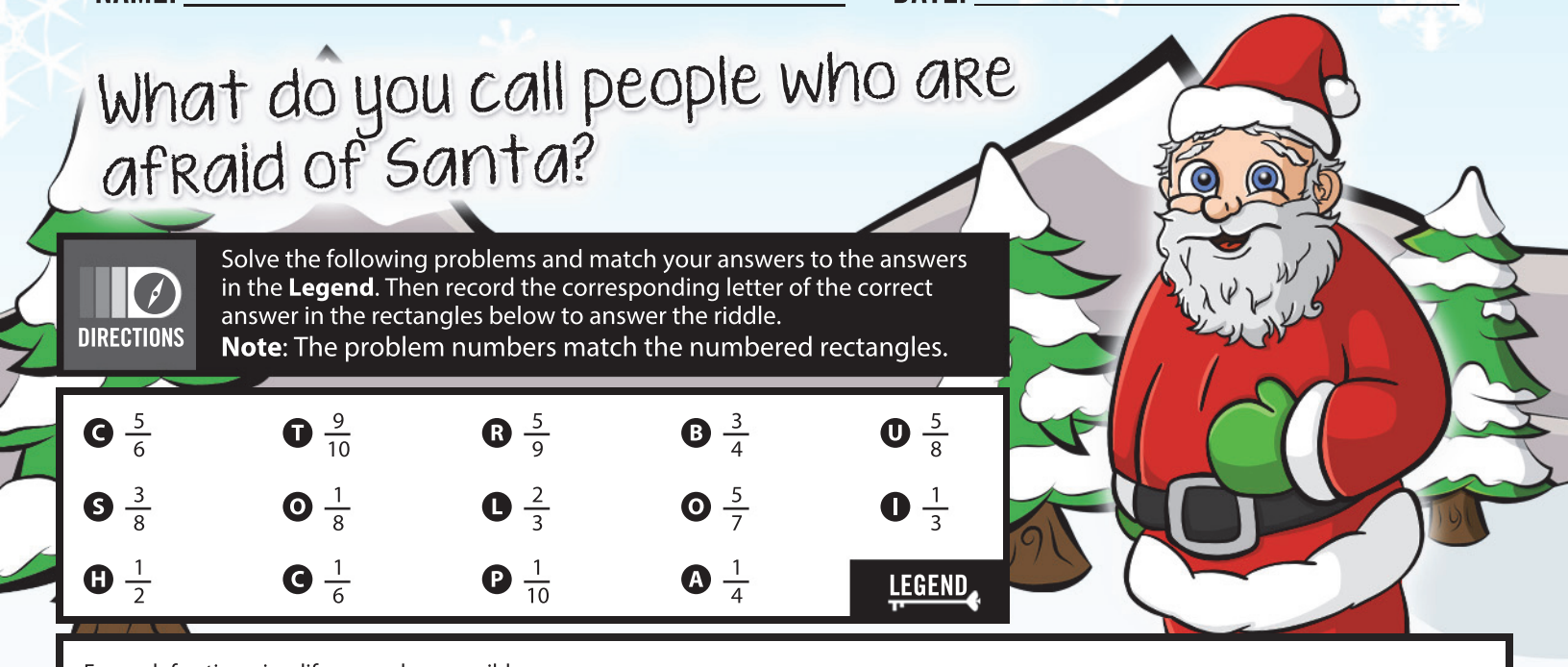
10. $\frac{3}{4} = \frac{6}{8} = \frac{9}{12} = \frac{12}{16} = \frac{?}{?} = \frac{18}{24}$ _____

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

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

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:

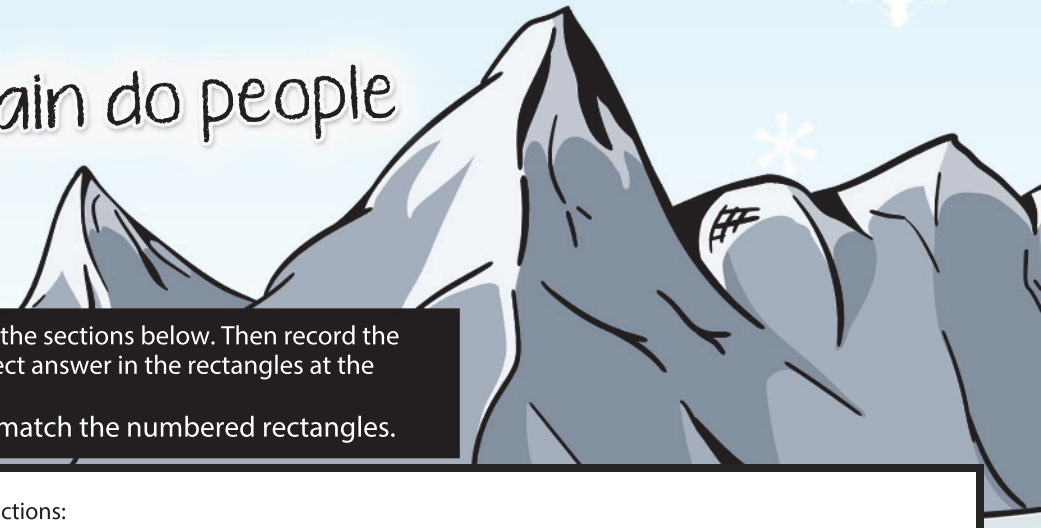
(1) $\frac{15}{27}$ _____	(2) $\frac{14}{56}$ _____	(3) $\frac{9}{18}$ _____
(4) $\frac{21}{28}$ _____	(5) $\frac{30}{80}$ _____	(6) $\frac{5}{40}$ _____
(7) $\frac{6}{18}$ _____	(8) $\frac{16}{24}$ _____	(9) $\frac{40}{48}$ _____
(10) $\frac{40}{64}$ _____	(11) $\frac{7}{42}$ _____	(12) $\frac{15}{21}$ _____
(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 $\frac{2}{5} \bigcirc \frac{10}{12}$

U < **O** > **P** =

② $\frac{9}{12} \bigcirc \frac{3}{4}$

N < **G** > **S** =

③ $\frac{2}{3} \bigcirc \frac{1}{5}$

P < **N** > **S** =

④ $\frac{5}{12} \bigcirc \frac{5}{8}$

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

⑤ $\frac{2}{3} \bigcirc \frac{4}{5}$

V < **X** > **L** =

⑥ $\frac{1}{2} \bigcirc \frac{5}{12}$

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

⑦ $\frac{3}{4} \bigcirc \frac{12}{16}$

K < **V** > **T** =

⑧ $\frac{3}{10} \bigcirc \frac{3}{8}$

R < **L** > **M** =

⑨ $\frac{7}{8} \bigcirc \frac{8}{9}$

E < **O** > **U** =

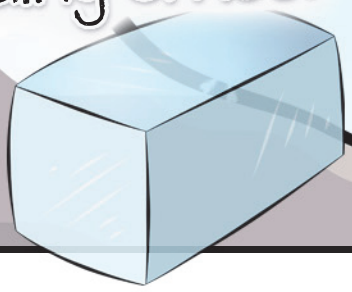
6	4	1	3	7

					–				
3	9	5	9	8		8	9	2	7

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

NAME: _____ DATE: _____

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



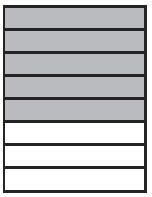
DIRECTIONS

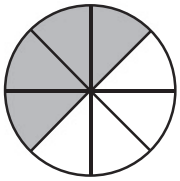
Solve the following problems in the sections below. Then record the corresponding letter of the correct answer in the rectangles at the bottom to answer the riddle.
Note: The problem numbers match the numbered rectangles.

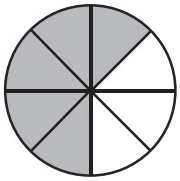
For problems 1–6, determine if the shaded region is less, more, or equal to half:

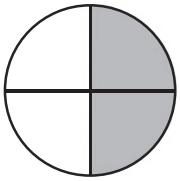
① 
G <
L >
R =

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?

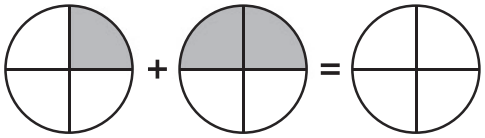
DIRECTIONS

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:

1. 
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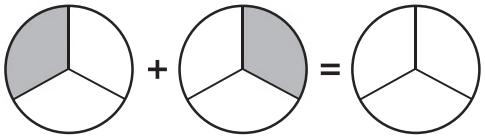
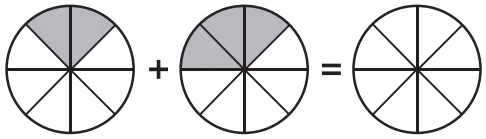
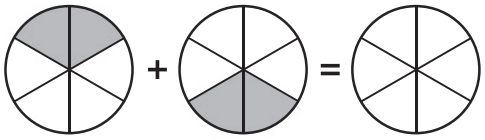
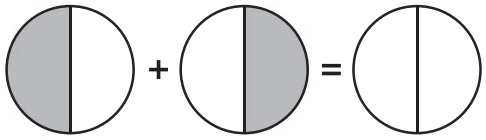
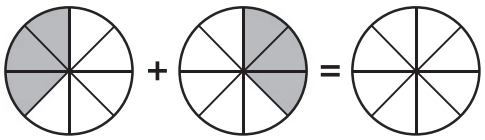
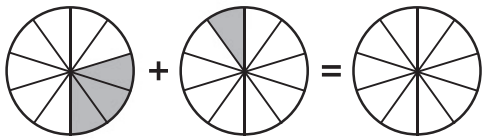
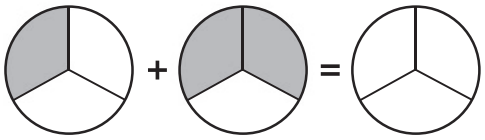
3. 
4. 
5. 
6. 
7. 
8. 
9. 
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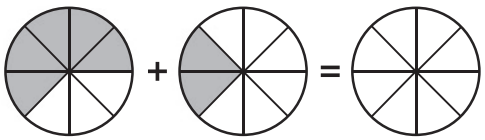
11. 

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?

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

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

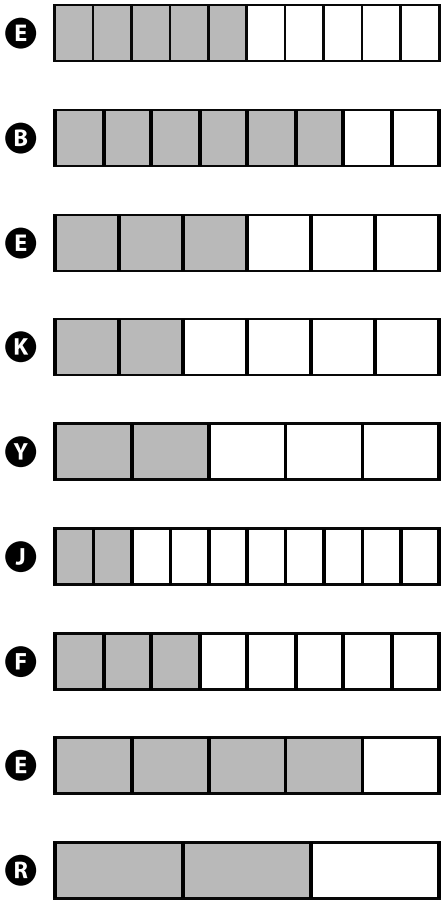
⑥ $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} =$ _____

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

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

NAME: _____ DATE: _____

Why did the banker quit his job?

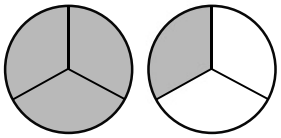
DIRECTIONS

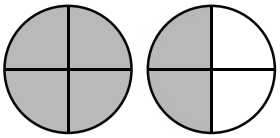
Solve the following problems and match your answers to the answers in the **Legend**. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.
Note: The problem numbers match the numbered rectangles.

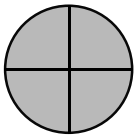
Add the fractions, then match your answer to the correct picture from the legend:

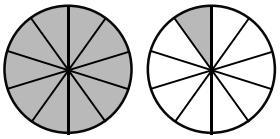
1. $\frac{5}{10} + \frac{4}{10} =$ _____
2. $\frac{1}{4} + \frac{3}{4} =$ _____
3. $\frac{3}{6} + \frac{1}{6} =$ _____
4. $\frac{2}{3} + \frac{2}{3} =$ _____
5. $\frac{1}{5} + \frac{3}{5} =$ _____
6. $\frac{3}{4} + \frac{3}{4} =$ _____
7. $\frac{6}{10} + \frac{5}{10} =$ _____
8. $\frac{5}{6} + \frac{5}{6} =$ _____
9. $\frac{2}{5} + \frac{3}{5} =$ _____

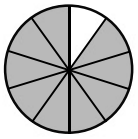
LEGEND

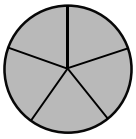
H 

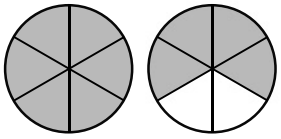
I 

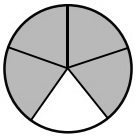
N 

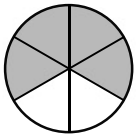
S 

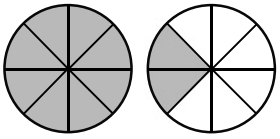
O 

E 

T 

L 

R 

M 

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?

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.

LEGEND

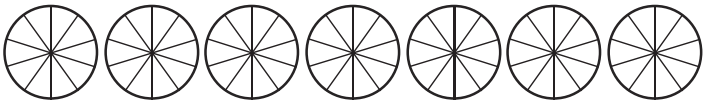
I $4\frac{1}{3}$	O $6\frac{2}{4}$	W $3\frac{1}{10}$	N 4	A 3	L $5\frac{3}{4}$
H $4\frac{2}{3}$	K 5	T $3\frac{3}{5}$	S $5\frac{3}{10}$	E $6\frac{1}{4}$	

Use the visual model to solve the problem:

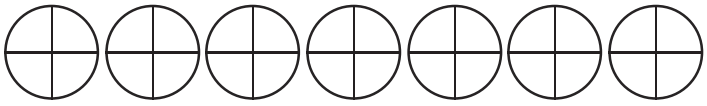
1. $1\frac{2}{5} + 2\frac{1}{5} =$

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

3. $2\frac{7}{10} + 2\frac{6}{10} =$



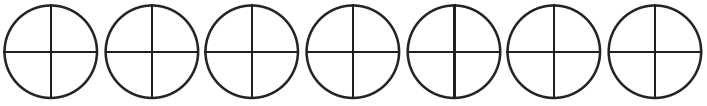
4. $3\frac{2}{4} + 2\frac{1}{4} =$



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

6. $1\frac{2}{3} + 2\frac{2}{3} =$

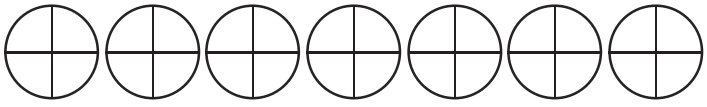
7. $4\frac{3}{4} + 1\frac{2}{4} =$



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.

LEGEND

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		

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

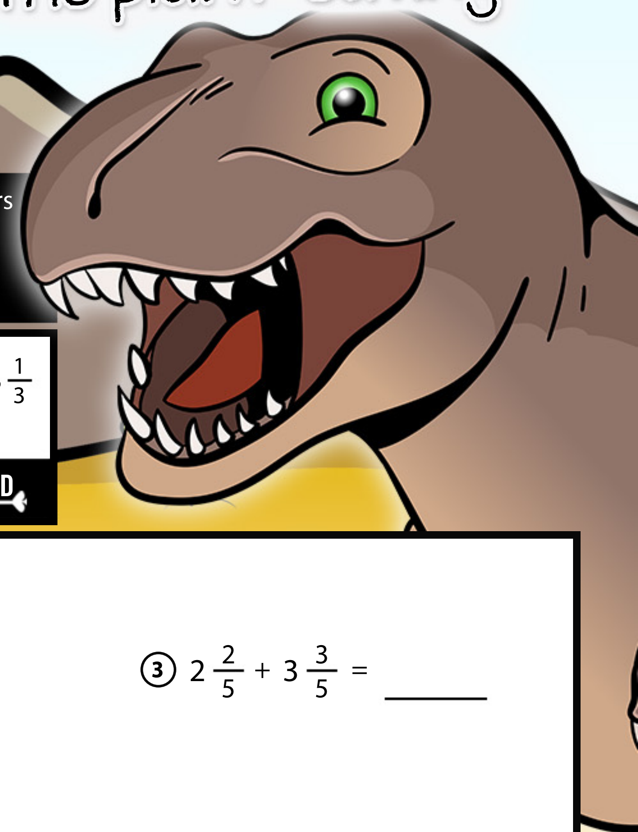
1. $\frac{32}{5} + \frac{15}{5} =$ _____
2. $\frac{51}{2} - \frac{39}{2} =$ _____
3. $\frac{19}{7} + \frac{24}{7} =$ _____
4. $\frac{61}{4} + \frac{39}{4} =$ _____
5. $\frac{73}{3} - \frac{29}{3} =$ _____
6. $\frac{56}{6} + \frac{3}{6} =$ _____
7. $\frac{93}{10} - \frac{14}{10} =$ _____
8. $\frac{47}{7} - \frac{25}{7} =$ _____
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.

LEGEND

- 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 $6\frac{2}{10}$

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. $3\frac{5}{6} + 3\frac{3}{6} =$ ______

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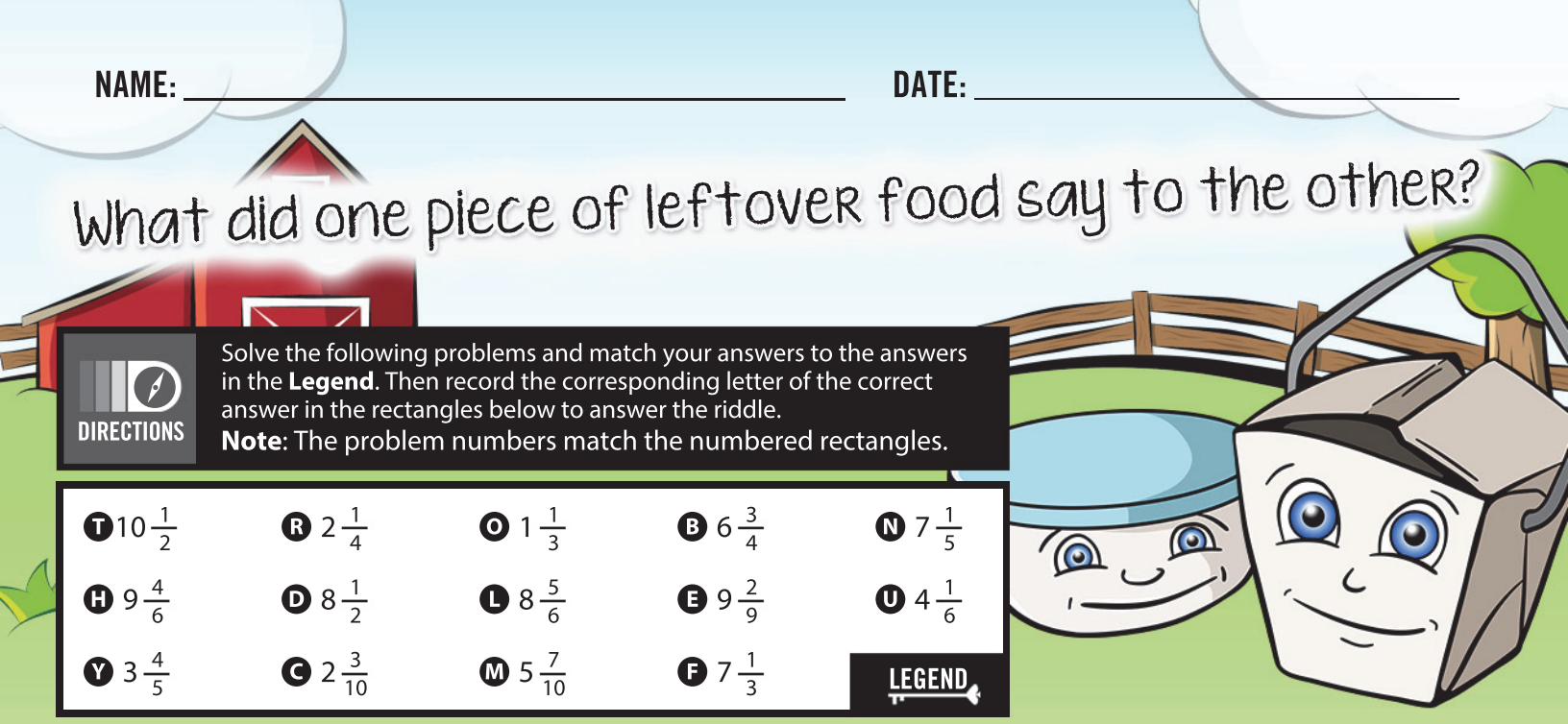
7 8 ' 10 | 3 10 8 10 9 | 6 10 1 | 5 10 9 - 2 7 8 4 9 10

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?



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. $\frac{57}{10}$ _____
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 faction 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.

LEGEND

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 $2\frac{4}{5}$	

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 $5\frac{5}{9} - 2\frac{7}{9}$

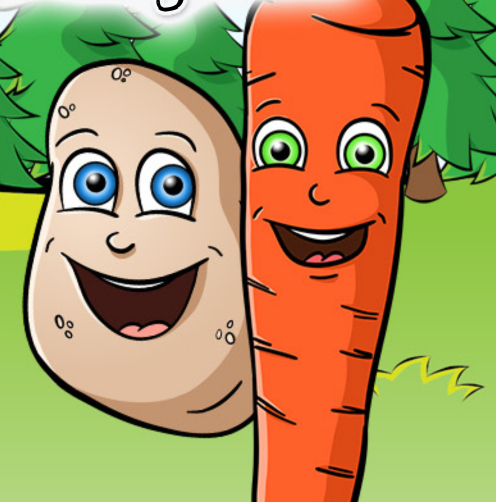
⑪ $8 - 7\frac{1}{2}$

					’														?
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.

LEGEND

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 $3\frac{1}{2}$	

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

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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?

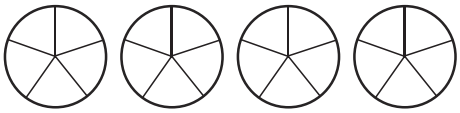
DIRECTIONS

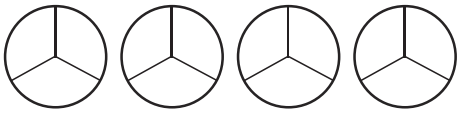
Solve the following problems and match your answers to the answers in the **Legend**. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.
Note: The problem numbers match the numbered rectangles.

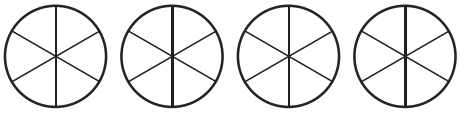
LEGEND

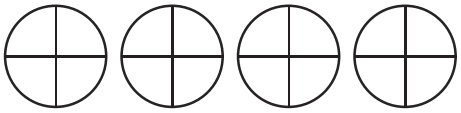
A $3\frac{1}{9}$	O $1\frac{1}{3}$	N 3	P $2\frac{1}{4}$	U $1\frac{2}{4}$	R $3\frac{3}{5}$
T $4\frac{2}{3}$	S $1\frac{3}{7}$	M $1\frac{2}{10}$	E 2		

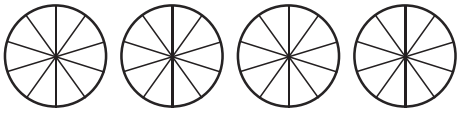
Use the visual model to solve the problem:

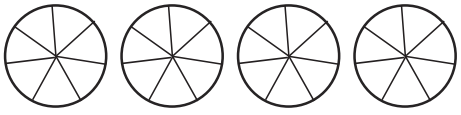
1. $\frac{2}{5} \times 5 =$ 

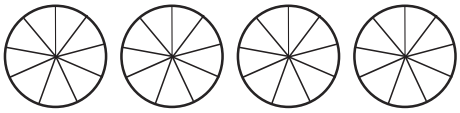
2. $\frac{1}{3} \times 4 =$ 

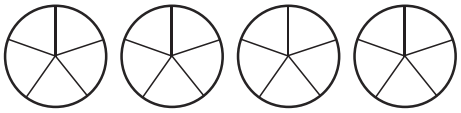
3. $\frac{1}{2} \times 6 =$ 

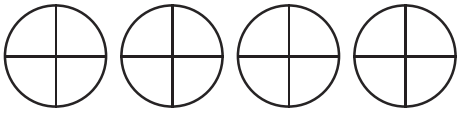
4. $\frac{3}{4} \times 2 =$ 

5. $\frac{3}{10} \times 4 =$ 

6. $\frac{2}{7} \times 5 =$ 

7. $\frac{4}{9} \times 7 =$ 

8. $\frac{3}{5} \times 6 =$ 

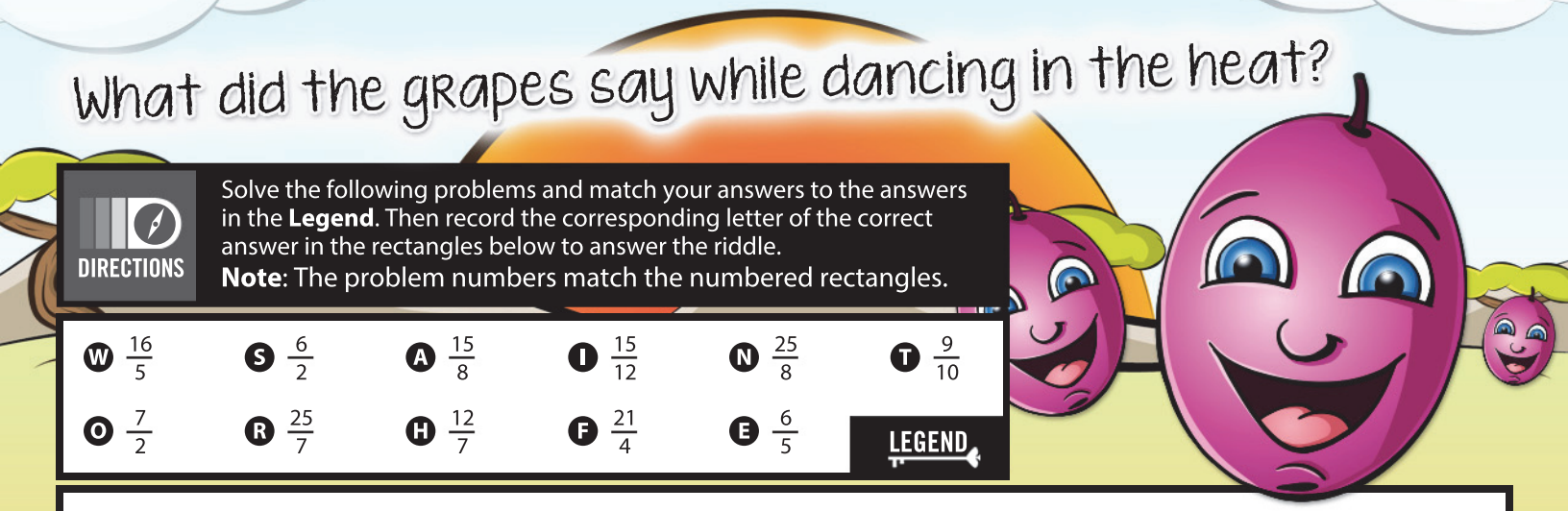
9. $\frac{1}{4} \times 9 =$ 

6	2	4	9	1	8	5	7	3

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

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.

LEGEND

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 $\frac{6}{5}$	

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?

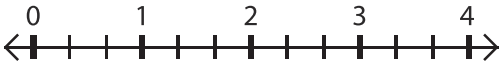
DIRECTIONS

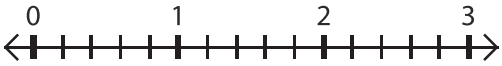
Solve the following problems and match your answers to the answers in the **Legend**. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.
Note: The problem numbers match the numbered rectangles.

LEGEND

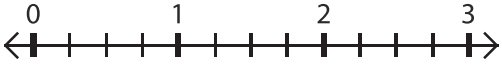
N $1\frac{6}{8}$	A $1\frac{2}{10}$	S $1\frac{3}{4}$	R $1\frac{3}{6}$	W $1\frac{4}{5}$	T $2\frac{3}{5}$
F $3\frac{1}{3}$	O $2\frac{1}{3}$	D $2\frac{1}{4}$	I $2\frac{1}{7}$	K $1\frac{4}{7}$	

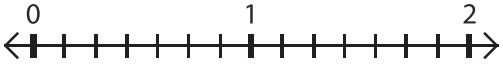
Use the number lines to solve each problem:

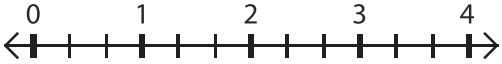
1. $\frac{1}{3} \times 7 =$ 

2. $\frac{1}{5} \times 9 =$ 

3. $\frac{1}{8} \times 14 =$ 

4. $\frac{1}{4} \times 9 =$ 

5. $\frac{1}{7} \times 11 =$ 

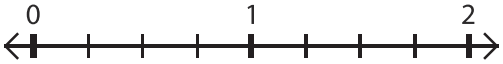
6. $\frac{1}{3} \times 10 =$ 

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

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NAME: _____ DATE: _____

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

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

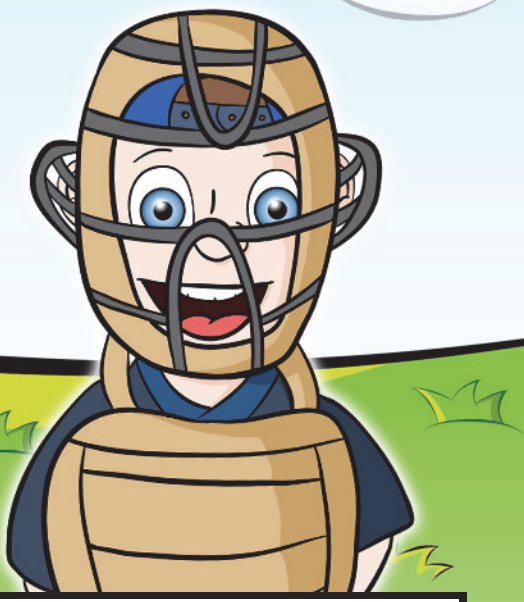
1. $3 \times \frac{7}{8} =$
2. $5 \times \frac{2}{5} =$
3. $2 \times \frac{3}{5} =$
4. $7 \times \frac{2}{9} =$
5. $4 \times \frac{3}{7} =$
6. $9 \times \frac{3}{11} =$
7. $12 \times \frac{2}{5} =$
8. $6 \times \frac{3}{11} =$
9. $10 \times \frac{2}{7} =$
10. $2 \times \frac{4}{5} =$
11. $14 \times \frac{2}{9} =$
12. $8 \times \frac{5}{8} =$
13. $15 \times \frac{2}{3} =$
14. $9 \times \frac{5}{7} =$
15. $13 \times \frac{3}{5} =$

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

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

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.

LEGEND

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	

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

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

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

4. 20 taekwondo students tested to receive their blackbelt and $\frac{3}{4}$ of them passed. How many students earned a blackbelt?
_____ 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?
_____ 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

7. 16 kids each received $\frac{3}{4}$ lbs of candy. What is the total amount of candy they received? _____ lbs

8. Greg stacked 6 books, each being $\frac{3}{4}$ inch tall. How tall was his pile of books? _____ inches

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

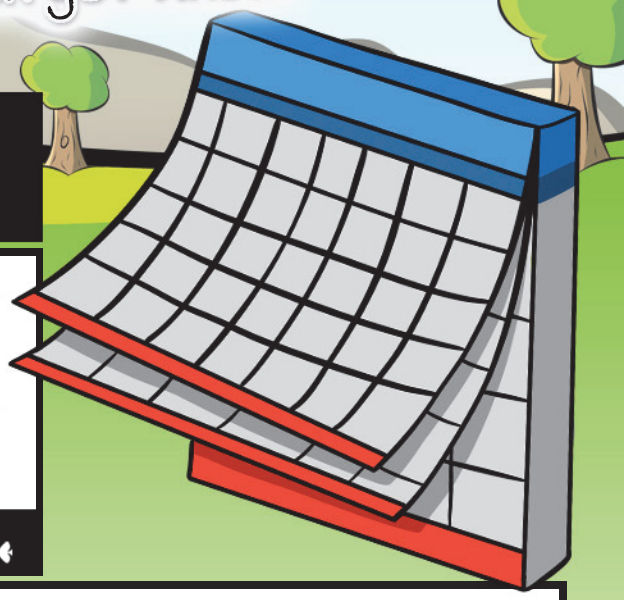
10. A box of juice weighs $\frac{1}{2}$ lb. How much does a pack of 15 juice boxes weigh? _____ lbs

			’																
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

NAME: ______________________ DATE: ______________________

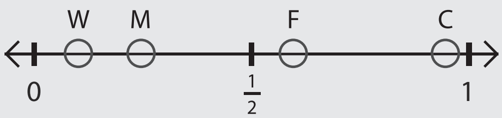
What did the librarian say when the books were a mess?

DIRECTIONS

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

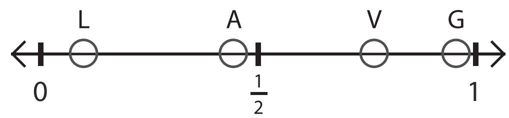
Note: The problem numbers match the numbered rectangles.

Use the number lines to answer the following questions:



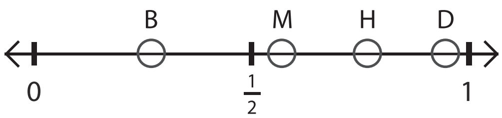
(1) Which letter best represents 0.6? ________

(2) Which letter best represents 0.05? ________



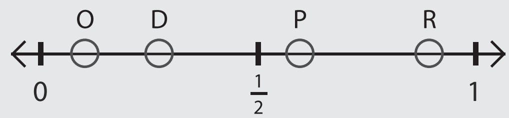
(3) Which letter best represents 0.75? ________

(4) Which letter best represents 0.96? ________



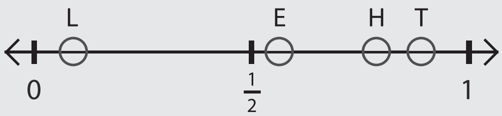
(5) Which letter best represents 0.55? ________

(6) Which letter best represents 0.25? ________



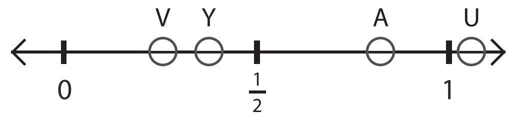
(7) Which letter best represents 0.3? ________

(8) Which letter best represents 0.8? ________



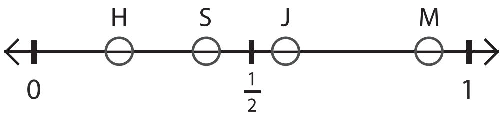
(9) Which letter best represents 0.1? ________

(10) Which letter best represents 0.83? ________



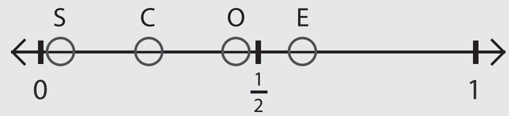
(11) Which letter best represents 1.10? ________

(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

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

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.

LEGEND

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 $\frac{22}{100}$	

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?

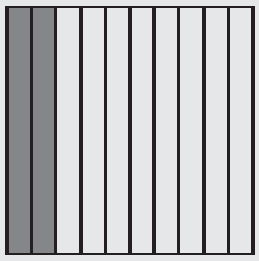
DIRECTIONS

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.

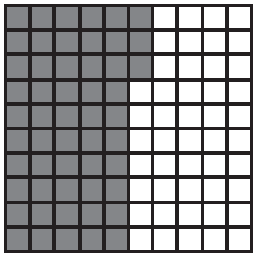
T $\frac{3}{10}$	A 0.1	O 0.53	N $\frac{2}{10}$	T $\frac{34}{100}$
A $\frac{8}{10}$	O $\frac{6}{10}$	W 0.3	T 0.05	E 0.71
O $\frac{5}{100}$	D 0.34	T $\frac{71}{100}$	S $\frac{53}{100}$	F 0.6
H 0.2	F $\frac{99}{100}$	E 0.99	Y 0.8	

LEGEND

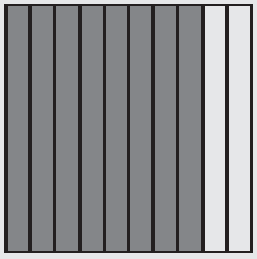
Determine the value represented by the shaded portion in each graph and write it as either a fraction or decimal:



(1) Fraction: _____
(2) Decimal: _____

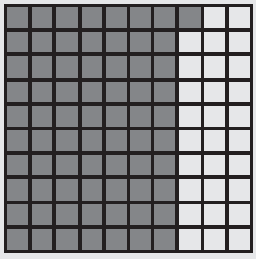


(3) Fraction: _____
(4) Decimal: _____

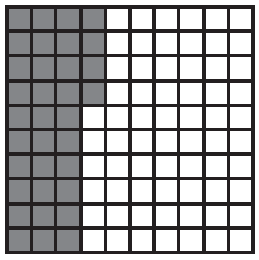


(5) Fraction: _____
(6) Decimal: _____

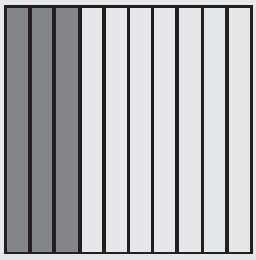
(7) Fraction: _____
(8) Decimal: _____



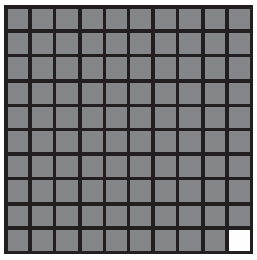
(9) Fraction: _____
(10) Decimal: _____



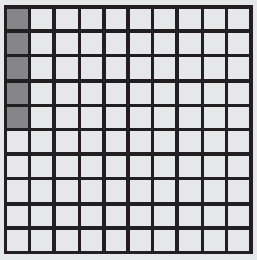
(11) Fraction: _____
(12) Decimal: _____



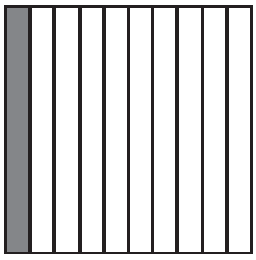
(13) Fraction: _____
(14) Decimal: _____



(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 hundreds)
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 ◯ 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 =

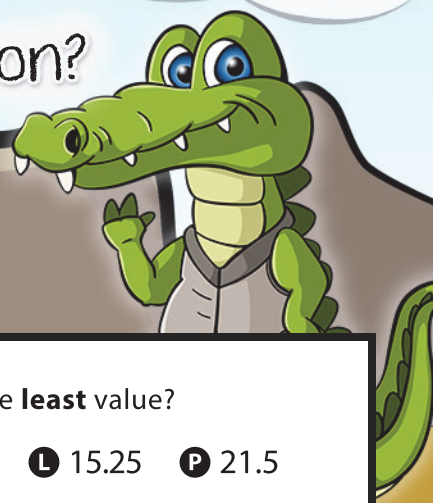
⑱ 5.9 ◯ 5.71
K < Q > M =

																								!
12	4	8	2	16		10	6		18	13	1	9	17	5	15		7	14	3	11				

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

NAME: _____ DATE: _____

What do you call an alligator with a vest on?



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.

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

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

NAME: _____ DATE: _____

Which animal should you never give your uncle?

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.

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

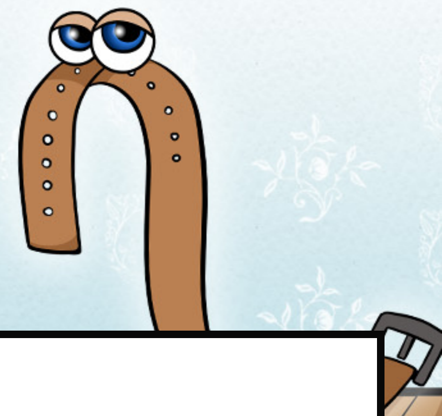
10. Which shows the correct order from **greatest** to least?
    - O 5.33, 5.03, 5.01, 5.02
    - I 9.99, 9.09, 9.19, 9.01
    - A 6.59, 6.39, 6.04, 4.06

5	7	10	2	8	4	1	6	3	9

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

NAME: ______________________ DATE: ______________

Why was the belt put in prison?



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 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

NAME: _____ DATE: _____

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

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 1–5, 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

Skill: Ordering money, different dollar amounts
CCSS: 4.NF.C.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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NAME: _____ DATE: _____

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 $\frac{2}{3}$	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:

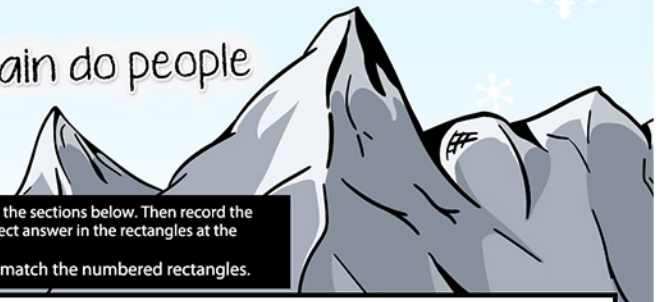
① $\frac{15}{27}$ $\frac{5}{9}$ R	② $\frac{14}{56}$ $\frac{1}{4}$ A	③ $\frac{9}{18}$ $\frac{1}{2}$ H
④ $\frac{21}{28}$ $\frac{3}{4}$ B	⑤ $\frac{30}{80}$ $\frac{3}{8}$ S	⑥ $\frac{5}{40}$ $\frac{1}{8}$ O
⑦ $\frac{6}{18}$ $\frac{1}{3}$ I	⑧ $\frac{16}{24}$ $\frac{2}{3}$ L	⑨ $\frac{40}{48}$ $\frac{5}{6}$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

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:

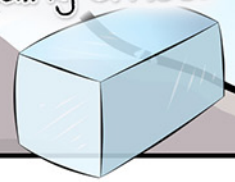
① $\frac{2}{5} < \frac{10}{12}$	② $\frac{9}{12} = \frac{3}{4}$	③ $\frac{2}{3} > \frac{1}{5}$
U < O > P =	N < G > S =	P < N > S =
④ $\frac{5}{12} < \frac{5}{8}$	⑤ $\frac{2}{3} < \frac{4}{5}$	⑥ $\frac{1}{2} > \frac{5}{12}$
O < E > A =	V < X > L =	S < M > R =
⑦ $\frac{3}{4} = \frac{12}{16}$	⑧ $\frac{3}{10}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

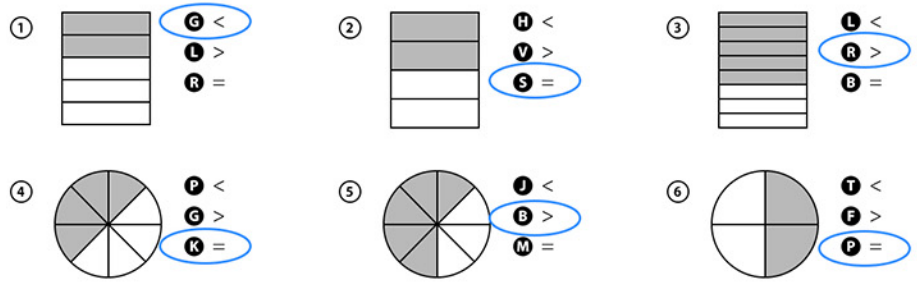
NAME: _____ DATE: _____

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:



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

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

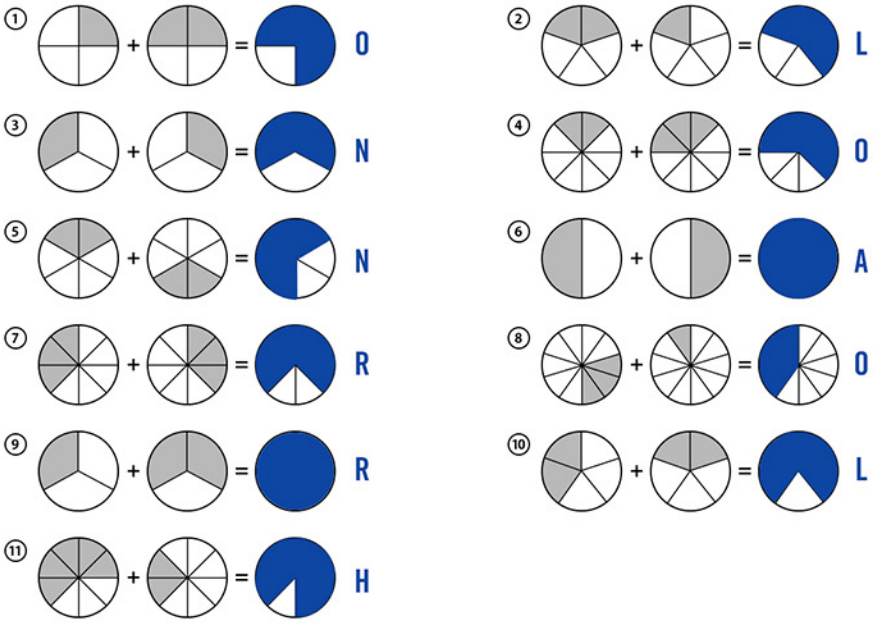
NAME: _____ DATE: _____

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:



A	N		H	O	N	O	R		R	O	L	L
6	3		11	8	5	1	9		7	4	2	10

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

NAME: _____ DATE: _____

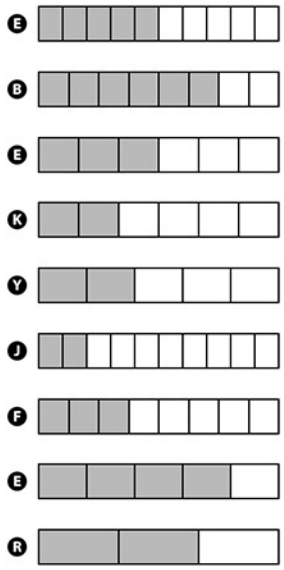
What do you call a cow with a twitch?

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. $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} = \frac{3}{6}$ 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

LEGEND



B	E	E	F		J	E	R	K	Y
6	4	9	2		7	1	5	8	3

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

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NAME: _____ DATE: _____

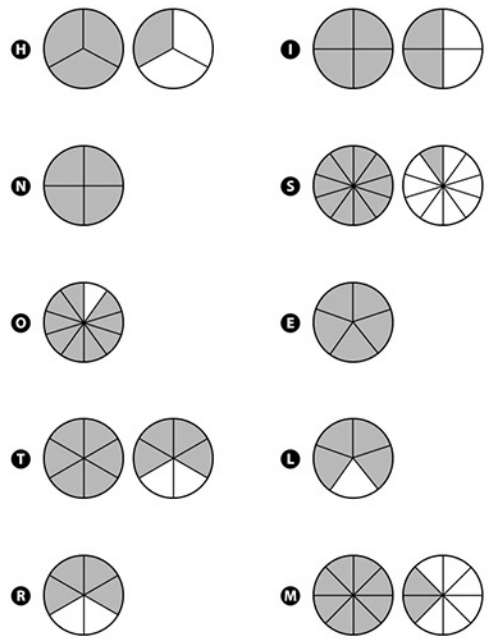
Why did the banker quit his job?

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:

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

LEGEND



H	E		L	O	S	T		I	N	T	E	R	E	S	T
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

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NAME: _____ DATE: _____

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 $2\frac{7}{10} + 2\frac{6}{10} = 5\frac{3}{10}$ 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
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 $\frac{32}{5} + \frac{15}{5} = \frac{47}{5}$ 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

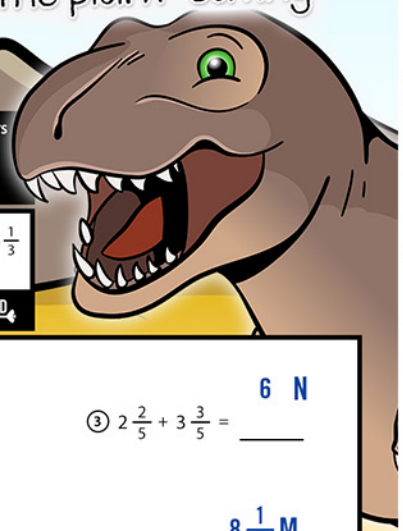
⑫ $\frac{39}{2} + \frac{15}{2} = 27$ T

I		G	U	E	S	S		I	T		W	A	S	N	'	T		M	I	N	T		T	O		B	E
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.

LEGEND

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 $6\frac{2}{10}$		

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

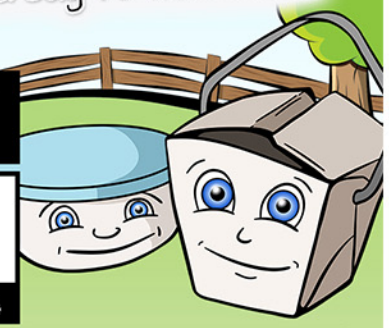
⑩ $3\frac{5}{6} + 3\frac{3}{6} =$ $7\frac{2}{6}$ E

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

NAME: _____ DATE: _____

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.

LEGEND

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 $7\frac{1}{3}$	

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 faction 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 $5\frac{2}{5}$ $\frac{27}{5}$ 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

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 $6\frac{1}{4} - 1\frac{3}{4}$ $4\frac{1}{2}$ 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

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?
   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? 93 D _____ miles

6. In problem 5 to the left, how much longer is the school bus' afternoon route than its morning route? _____ miles
   $6\frac{2}{5}$ L

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	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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NAME: _____ DATE: _____

Which comic character loves to eat clam chowder?

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.

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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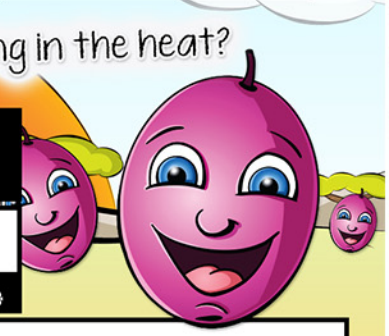
NAME: _____ DATE: _____

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.

LEGEND

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 $\frac{6}{5}$	

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

W	E	'	R	E		R	A	I	S	I	N		T	H	E		R	O	O	F	!
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

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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.

LEGEND

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 $1\frac{4}{7}$	

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

I	T		W	A	S		A		S	O	F	T		D	R	I	N	K
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

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NAME: _____ DATE: _____

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

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

SHE	WAS	TOO	MUCH	OF	A	PEAR-FECTIONIST
14 8 11	2 12 14	13 15 15	5 1 10 8	15 3	12	6 11 12 7 3 11 10 13 9 15 4 9 14 13

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

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

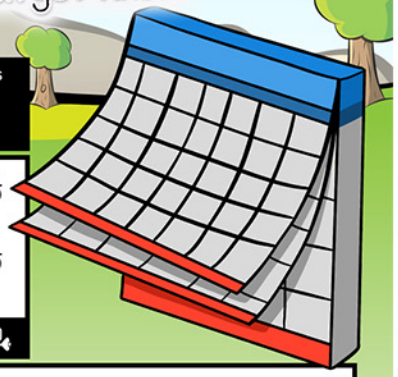
1. A pile of dirt weighed 6 pounds. Jonathan put $\frac{2}{3}$ of the dirt pile in a bucket. How much did the dirt in the bucket weigh? 4 U lbs
2. $\frac{1}{5}$ of the students in Mrs. May's class prefer chocolate chip cookies over sugar cookies. If there are 30 students in the class, how many students prefer chocolate chip cookies? 6 W 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? 25 S pens
4. 20 taekwondo students tested to receive their blackbelt and $\frac{3}{4}$ of them passed. How many students earned a blackbelt? 15 R 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? 2 B 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 $1\frac{1}{2}$ Y
7. 16 kids each received $\frac{3}{4}$ lbs of candy. What is the total amount of candy they received? 12 O lbs
8. Greg stacked 6 books, each being $\frac{3}{4}$ inch tall. How tall was his pile of books? _____ inches $4\frac{1}{2}$ F
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? 30 E flowers
10. A box of juice weighs $\frac{1}{2}$ lb. How much does a pack of 15 juice boxes weigh? _____ lbs $7\frac{1}{2}$ A

YOU'RE	WAY	OFF	BASE
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.

LEGEND

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 $\frac{82}{100}$	

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
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

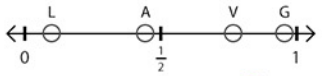
NAME: _____ DATE: _____

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

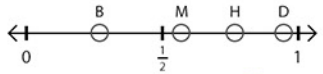
DIRECTIONS Solve the following problems. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.
Note: The problem numbers match the numbered rectangles.

Use the number lines to answer the following questions:

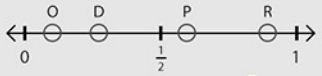
1. Which letter best represents 0.6? F
2. Which letter best represents 0.05? W



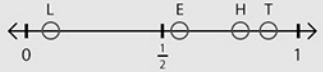
3. Which letter best represents 0.75? V
4. Which letter best represents 0.96? G



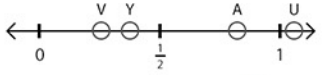
5. Which letter best represents 0.55? M
6. Which letter best represents 0.25? B



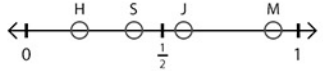
7. Which letter best represents 0.3? D
8. Which letter best represents 0.8? R



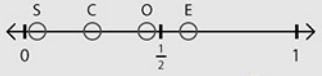
9. Which letter best represents 0.1? L
10. Which letter best represents 0.83? T



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
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

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

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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NAME: _____ DATE: _____

Why do French people eat snails?

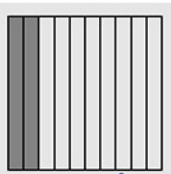
DIRECTIONS

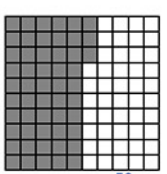
Solve the following problems and match your answers to the answers in the **Legend**. Then record the corresponding letter of the correct answer in the rectangles below to answer the riddle.
Note: The problem numbers match the numbered rectangles.

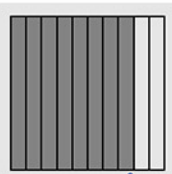
T $\frac{3}{10}$	A 0.1	O 0.53	N $\frac{2}{10}$	T $\frac{34}{100}$
A $\frac{8}{10}$	O $\frac{6}{10}$	W 0.3	T 0.05	E 0.71
O $\frac{5}{100}$	D 0.34	T $\frac{71}{100}$	S $\frac{53}{100}$	F 0.6
H 0.2	F $\frac{99}{100}$	E 0.99	Y 0.8	

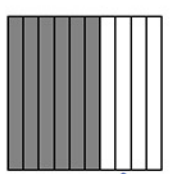
LEGEND

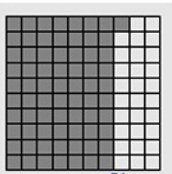
Determine the value represented by the shaded portion in each graph and write it as either a fraction or decimal:

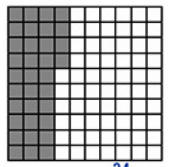

1. Fraction: $\frac{2}{10}$ N
2. Decimal: 0.2 H

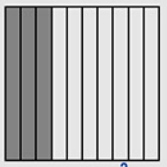

3. Fraction: $\frac{53}{100}$ S
4. Decimal: 0.53 O

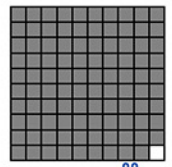

5. Fraction: $\frac{8}{10}$ A
6. Decimal: 0.8 Y

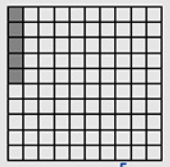

7. Fraction: $\frac{6}{10}$ O
8. Decimal: 0.6 F

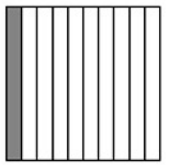

9. Fraction: $\frac{71}{100}$ T
10. Decimal: 0.71 E


11. Fraction: $\frac{34}{100}$ T
12. Decimal: 0.34 D


13. Fraction: $\frac{3}{10}$ T
14. Decimal: 0.3 W


15. Fraction: $\frac{99}{100}$ F
16. Decimal: 0.99 E


17. Fraction: $\frac{5}{100}$ O
18. Decimal: 0.05 T


19. Decimal: 0.1 A

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

W	H	A	T		A		W	A	S	T	E		O	F		T	H	Y	M	E
14	3	10	16		6		5	2	15	13	8		1	9		7	17	11	4	12

Skill: Converting fractions to decimals (tenths and hundreds)
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 < 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 =

G	I	M	M	E		M	Y		Q	U	A	R	T	E	R		B	A	C	K	!
12	4	8	2	16		10	6		18	13	1	9	17	5	15		7	14	3	11	

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

NAME: _____ DATE: _____

What do you call an alligator with a vest on?

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.

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?

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.

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?

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 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

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

NAME: _____ DATE: _____

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

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.

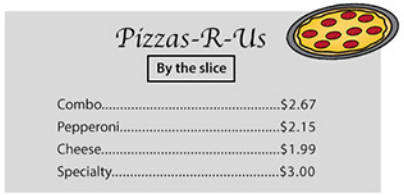
For problems 1–5, determine which sequence shows the correct order from least to greatest:

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:



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

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

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