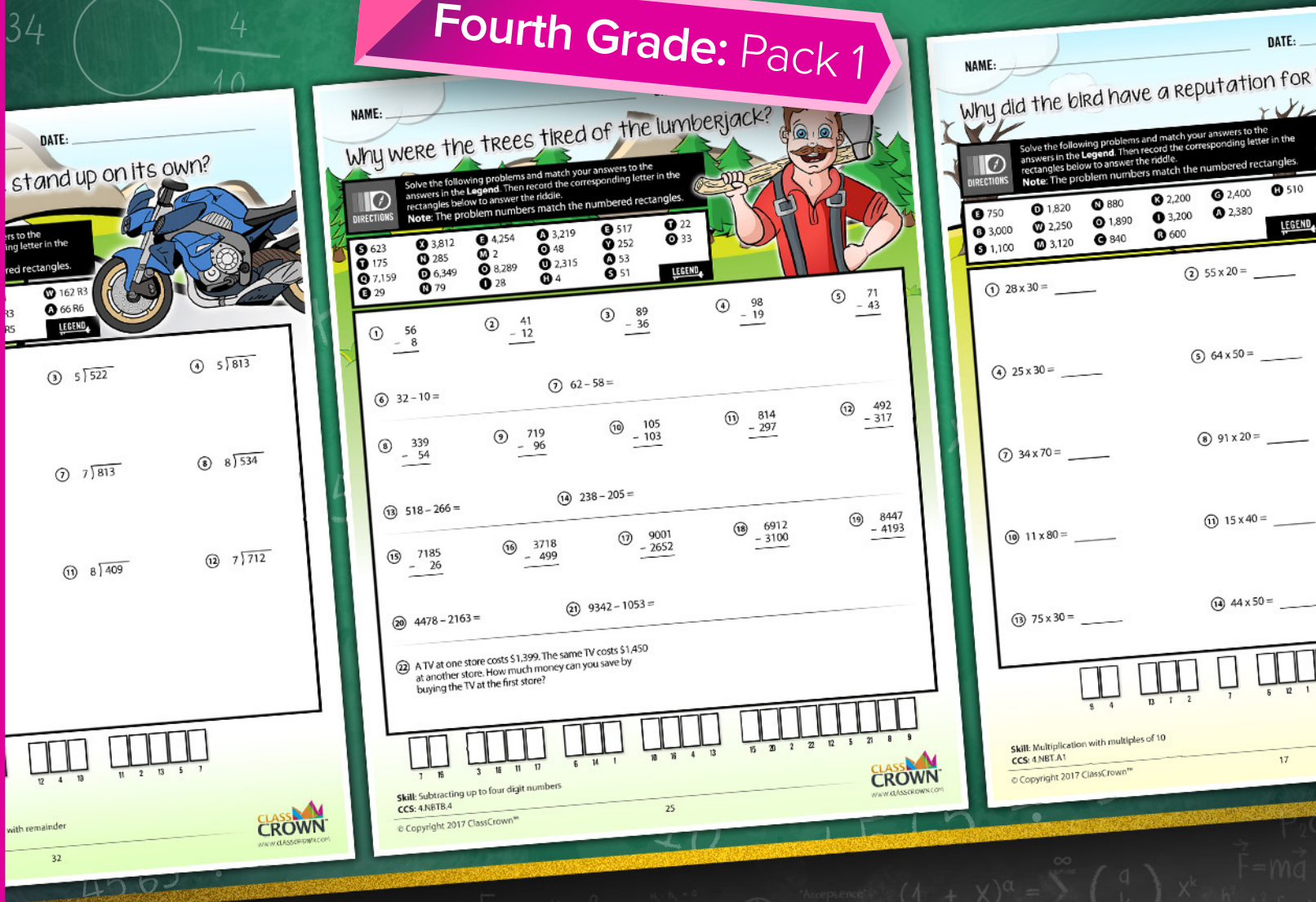
PACK 1

COMMON CORE ALIGNED

Math Series

Riddle-Me-Worksheets

Fourth Grade: Pack 1



GRADE LEVEL 4

PAGE COUNT 30

MATH SKILL

MULTI-SKILL

GRADE 4 MATH – **PACK 1**

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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.

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Math Series

Riddle-Me-Worksheets

Fun math worksheets with riddles to keep kids motivated.

- Key Features

- Self checking
- Common Core aligned
- Problem solving motivation
- High quality design

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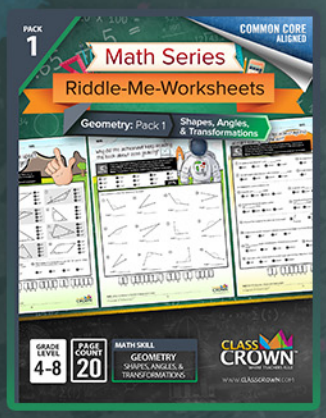
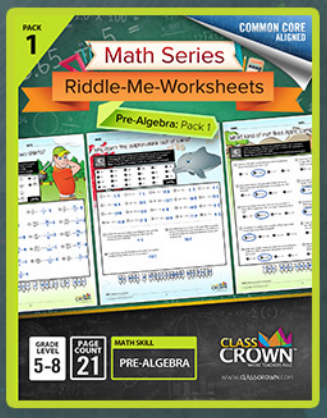


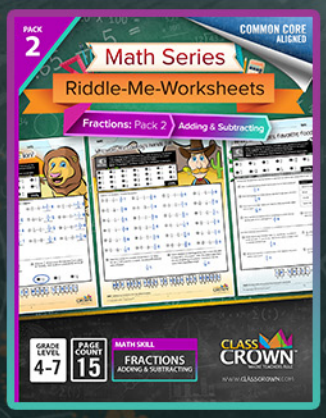
Geometry: Pack 1

Geometry: Pack 2

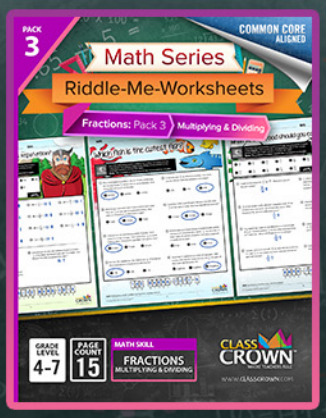


Pre-Algebra: Pack 1

Fractions: Pack 1



Fractions: Pack 2



Fractions: Pack 3

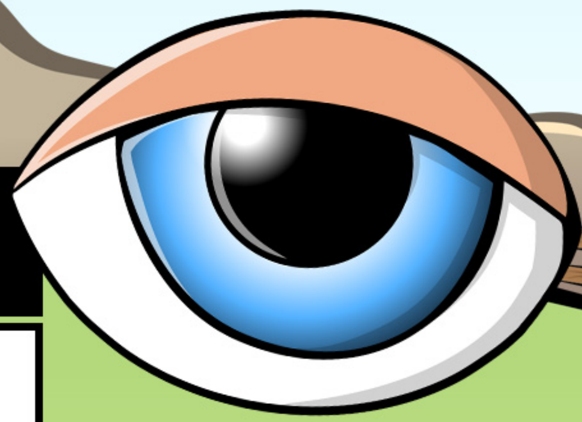
4th Grade: Pack 1

COLLECT THEM ALL!

Grade 4 – Pack 1: Contents

NAME: ______________________ DATE: ______________________

Why was the eye worried?



DIRECTIONS

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

LEGEND

A 4	N 8	G 24	L 6	E 30
M 12	H 7	W 2	T 18	B 72
S 5	I 48	F 32	O 63	D 9

Find the number that correctly fills in the blank:

(1) 28 is 4 times as many as ________ .

(2) 6 times as many as 5 is ________ .

(3) 15 is ________ times as many as 3.

(4) 9 times as many as 2 is ________ .

(5) 42 is ________ times as many as 7.

(6) 8 times as many as 3 is ________ .

(7) 54 is 6 times as many as ________ .

(8) 16 is ________ times as many as 4.

(9) 9 times as many as 8 is ________ .

(10) 88 is 11 times as many as ________ .

(11) 12 times as many as 4 is ________ .

(12) 18 is 9 times as many as ________ .

(13) 7 times as many as 9 is ________ .

☐☐☐ ☐☐☐ ☐☐☐☐ ☐☐☐'☐ ☐☐ ☐☐☐☐☐☐☐ ☐☐☐☐☐☐

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

Skill: Interpreting multiplication
CCSS: 4.0A.A.1

NAME: _____ DATE: _____

What kind of shoes does bread like to wear?

DIRECTIONS

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

LEGEND

A 2	P 18	R 16	E 10
O 4	L 21	F 3	S 5

1. A shoe store sold 4 times as many women's shoes as men's shoes in an hour. The store sold 4 pairs of men's shoes that hour. How many pairs of women's shoes did it sell?

_____ pairs

2. Joseph did 20 jumping jacks and 10 sit-ups. How many times more jumping jacks did he do than sit-ups?

_____

3. There were 15 boys in line to buy ice cream. That is 3 times the amount of girls in line. How many girls were in line to buy ice cream?

_____ girls

4. The long sides of a rectangle are 3 times as long as its short sides. Its short sides are 7 inches long. How long are the rectangle's long sides?

_____ inches

5. Ava rode her bike 10 miles. She walked 1 mile. How many times more miles did she ride her bike than walk?

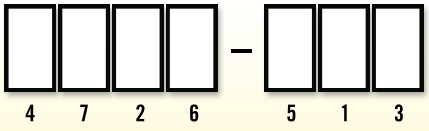
_____ times

6. Christian sent 5 text messages. Vivian sent 15 text messages. How many more text messages did Vivian send than Christian?

_____ text messages

7. In a hockey game, Sam missed twice as many shots as he made. He made 2 goals. How many shots did he miss?

_____ shots



Skill: Multiplying or dividing to solve word problems involving multiplicative comparison
CCSS: 4.0A.A.2

NAME: _____ DATE: _____

What article of clothing likes to rock out with his band?

DIRECTIONS

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

LEGEND

A 1	M 5	A 2	S 6
P 3	A 7	L 4	J 8

In each word problem, interpret the shown remainder to determine the answer:

1. Mr. Kramer needs 50 juice boxes for a field trip with his students. If 8 juice boxes come in a package, how many packages does he need to buy?

   50 ÷ 8 = 6 R2 _____ packages

2. A large bowl holds 25 oz of granola. If you want to pour the granola into 4 smaller bowls with the same amount in each bowl, how many ounces would be in each smaller bowl?

   25 ÷ 4 = 6 R1 _____ oz.

3. A shipping package can hold 8 boxes of crayons. If a crayon factory has 67 boxes of crayons to ship and all but the last shipping package is filled to capacity, how many boxes of crayons will be in the last shipping package that isn't full?

   67 ÷ 8 = 8 R3 _____ boxes

4. Julian has 10 candy bars to distribute among himself and 3 friends. He plans to distribute the bars evenly and bring the rest home to his mom. How many candy bars will Julian give his mom?

   10 ÷ 4 = 2 R2 _____ candy bars

5. A restaurant needs to buy 30 more glasses. If the glasses come 4 in a box, how many boxes do they need to order?

   30 ÷ 4 = 7 R2 _____ boxes

6. A school had 20 students sign up for a jump rope contest. There needs to be 3 students on each team. How many more students need to sign up in order to have an additional complete team?

   20 ÷ 3 = 6 R2 _____ student(s)

7. A librarian wanted to pack 28 books into boxes. Each box held 5 books. She decided to pack as many boxes as she could fill completely and pack any remaining books next time. How many boxes did she pack?

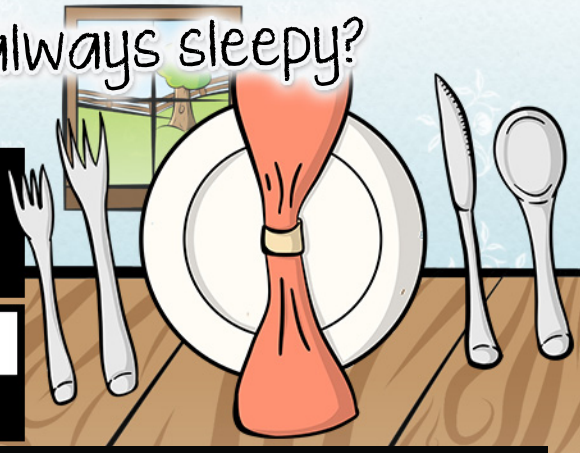
   28 ÷ 5 = 5 R3 _____ boxes

		–				–		
3	6		5	1	7		4	2

Skill: Interpreting remainders in division word problems
CCSS: 4.0A.A.3

NAME: _____ DATE: _____

What part of the place setting is always sleepy?



DIRECTIONS

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

LEGEND

L 21	N 17	H 8	A 30	N 2
K 6	I 13	T 3	P 45	E 40

(1) Neal had 7 shirts to give away. If he donated 5 to a charity, how many does he still have to give away?

_____

(2) 5 students from Mrs. Kim's class and 8 students from Mr. Cooper's class signed up for the talent show. How many students total from the 2 classes signed up?

_____

(3) The freshwater section of an aquarium had 32 large freshwater fish distributed evenly in 4 large tanks. How many fish were in each tank?

_____

(4) A packing box can hold 6 jars of jam each. If 5 packing boxes are filled, how many jars will be packed up?

_____

(5) Bella bought 4 notebooks to add to the 2 she has in her backpack. How many notebooks does she have total?

_____

(6) Each shelf in a 4-shelf bookshelf holds 10 encyclopedias. How many encyclopedias can the bookshelf hold?

_____

(7) Sammy Jo had 27 markers. She gave 10 to her friend Ava. How many markers does Sammy Jo have now?

_____

(8) Rico bought a pizza to share evenly between himself and 3 friends. The pizza was cut into 12 slices. How many slices of pizza does each person get?

_____

(9) On Halloween, Jill collected 49 pieces of candy. She ate 4 pieces that night. How many pieces were leftover?

_____

8	3	6		1	4	9	–	5	2	7

Skill: Solving word problems with 4 operations
CCSS: 4.0A.A.3

NAME: _____ DATE: _____

What has 4 legs, yet can't walk?

DIRECTIONS

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

LEGEND

L 60	A 25	A 18	E 72
T 140	N 55	B 420	

1. Shawn bought a 12-pack of soda. Each soda had 175 calories. If shawn drank the soda over 5 days, and consumed exactly the same amount each day, how many calories did he drink each day?

_____ calories

2. For 2 weeks, Jenny and Greg each collected cans of food to donate to the homeless shelter. Jenny collected 45 cans and Greg collected 4 times as many cans as Jenny. At the end of 2 weeks, they combined their cans and distributed them evenly among 9 boxes. How many cans fit in each box?

_____ cans

3. Andrea spent 90 minutes a day on the computer for 4 days in a week. The next week she spent the same total amount of time on the computer, but spread her time evenly over 5 days of the week. How many minutes did she spend on the computer each of the 5 days?

_____ minutes

4. Jason bought 12 boxes of pencils for $146, with each box containing 40 pencils. He then distributed the pencils evenly among 8 supply offices in his workplace. How many pencils will go in each office?

_____ pencils

5. Diana rode her bicycle 15 miles a day each day for a week. The next week she rode 35 more total miles than the total the week prior. How many total miles did she ride the second week?

_____ miles

6. James traded in 15 old video games for 3 new ones. Then he sold the new video games for $60 each. With the money he received, he bought 10 dolls and donated them to a holiday toy charity. How much did each doll cost?

_____ dollars

2	5	6	1	4	3	

Skill: Solving two-step problems
CCSS: 4.0A.A.3

NAME: _____ DATE: _____

What did the pharmacist say to the grumpy medicine?

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 is not a factor of 12?
   A 3 T 4 O 5 G 6

2. Which is not a factor of 45?
   M 3 L 4 A 5 B 15

3. Which is a factor of 11?
   E 11 G 7 S 3 N 2

4. Which is not a factor of 18?
   O 3 T 10 L 6 E 2

5. Which is not a factor of 60?
   Z 15 N 4 R 30 H 16

6. Which is a factor of 77?
   A 3 P 11 T 15 W 12

7. Which is not a factor of 81?
   B 3 U 9 A 2 Q 27

8. Which is not a factor of 50?
   B 25 N 12 R 10 O 5

9. Which is not a factor of 56?
   F 8 B 5 M 4 Y 2

10. Which is a factor of 70?
    A 18 E 4 X 17 O 10

11. Which is a factor of 28?
    R 13 S 18 D 4 W 6

12. Which is not a factor of 93?
    L 9 M 3 F 31 B 93

13. Which is a factor of 48?
    O 11 A 20 I 24 U 13

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

Skill: Finding factors for whole numbers between 1 and 100
CCSS: 4.0A.B.4

NAME: _____ DATE: _____

Which fruit couldn't run away and get married when his parents objected?

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 is a factor of 15, but not a multiple of 3?
   R 9 A 5 S 4 L 6

2. Which number is a factor of 24, but not a multiple of 3?
   B 12 M 16 H 8 P 7

3. Which number is a factor of 40, but not a multiple of 5?
   E 8 S 10 O 20 R 3

4. Which number is a factor of 16, but not a multiple of 4?
   A 10 C 6 L 8 O 2

5. Which number is a factor of 50, but not a multiple of 2?
   S 10 T 25 B 14 R 20

6. Which number is a factor of 21, but not a multiple of 7?
   A 14 P 5 O 2 E 3

7. Which number is a factor of 81, but not a multiple of 9?
   R 27 L 3 S 9 C 18

8. Which number is a factor of 22, but not a multiple of 2?
   D 4 E 11 G 6 K 7

9. Which number is a factor of 60, but not a multiple of 2?
   E 4 F 6 N 15 S 7

10. Which number is a factor of 18, but not a multiple of 9?
    S 8 T 6 J 9 M 4

11. Which number is a factor of 44, but not a multiple of 2?
    P 11 S 4 R 22 D 32

12. Which number is a factor of 20, but not a multiple of 4?
    D 6 B 12 C 5 P 8

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

Skill: Identifying factors and multiples
CCSS: 4.0A.B.4

NAME: _____ DATE: _____

Why was the banana's license taken away?

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 is prime?
   R 6 T 7 M 8 U 9

2. Which number is prime?
   E 53 O 27 T 33 L 81

3. Which number is prime?
   L 44 S 15 O 31 A 51

4. Which number is prime?
   M 47 N 57 Q 63 B 16

5. Which number is prime?
   T 36 S 8 Y 11 P 9

6. Which number is prime?
   W 9 M 6 B 10 H 2

7. Which number is prime?
   O 27 A 17 U 33 I 46

8. Which number is composite?
   R 2 M 7 P 9 S 11

9. Which number is composite?
   I 51 A 61 O 71 U 89

10. Which number is composite?
    Z 53 L 3 R 23 N 57

11. Which number is not composite?
    R 15 K 18 P 81 L 83

12. Which number is neither prime nor composite?
    D 1 B 5 S 8 T 22

13. Which number is not prime?
    D 43 S 39 R 17 Y 13

14. Which number is not composite?
    F 91 P 99 U 97 N 93

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

Skill: Identifying prime numbers
CCSS: 4.0A.B.4

NAME: _____ DATE: _____

Why did the cat smell so good?

DIRECTIONS

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

LEGEND

I 2x23	P 3x3x3x3	E 2x2x2x2	U 2x2x2x2x3
S 3x3x7	A 3x19	W 2x47	M 2x2x2x3
N 2x2x11	T 5x5x5	H 2x3x3	
R 5x17	F 5x5	G 3x5	

Find the prime factors of each:

1. 18
2. 44
3. 81
4. 15
5. 46
6. 25
7. 24
8. 57
9. 63
10. 94
11. 48
12. 16
13. 85

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

Skill: Prime factorization
CCSS: 4.0.A.B.4

NAME: _____ DATE: _____

Why was the tooth looking for his long lost relatives?

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 is a multiple of 8?
   B 44 K 52 F 64 R 77

2. Which number is a multiple of 6?
   W 84 S 91 B 16 L 22

3. Which number is a multiple of 12?
   N 25 P 54 B 66 R 72

4. Which number is a multiple of 2?
   E 15 A 98 R 47 U 77

5. Which number is a multiple of 5?
   B 71 H 85 M 44 W 6

6. Which number is a multiple of 15?
   L 20 D 25 P 65 S 45

7. Which number is a multiple of 3?
   R 22 D 57 L 10 B 61

8. Which number is a multiple of 11?
   S 3 K 26 N 88 X 56

9. Which number is a multiple of 7?
   I 91 O 27 U 59 E 68

10. Which number is a multiple of 4?
    I 42 K 50 C 62 E 8

11. Which number is a multiple of 10?
    T 100 S 55 M 41 P 11

12. Which number is a multiple of 9?
    E 15 P 75 O 45 S 100

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

Skill: Determining if a number is a multiple
CCSS: 4.0A.B.4

NAME: _____ DATE: _____

What was the hand's favorite holiday?

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 letter that best completes the pattern:

1 85, 76, 67, 58, ___ , ___

- **P** 50, 42
- **N** 49, 40
- **S** 67, 76
- **L** 51, 49

2 53, 63, 73, 83, ___ , ___

- **L** 93, 103
- **R** 103, 113
- **Y** 93, 113
- **B** 99, 109

3 49, 44, 39, 34, ___ , ___

- **F** 24, 19
- **O** 29, 19
- **C** 19, 4
- **A** 29, 24

4 77, 80, 83, 86, ___ , ___

- **B** 88, 92
- **R** 89, 91
- **S** 89, 92
- **M** 92, 94

5 108, 99, 90, 81, ___ , ___

- **K** 72, 62
- **C** 71, 62
- **P** 72, 63
- **R** 80, 71

6 11, 22, 33, 44, ___ , ___

- **R** 54, 65
- **Y** 55, 66
- **P** 55, 65
- **E** 54, 66

7 41, 49, 57, 65, ___ , ___

- **M** 73, 81
- **K** 71, 80
- **S** 72, 80
- **P** 70, 80

8 15, 20, 25, 30, ___ , ___

- **P** 40, 45
- **D** 35, 40
- **F** 40, 50
- **R** 35, 30

9 10, 13, 16, 19, ___ , ___

- **I** 21, 23
- **O** 22, 24
- **U** 22, 25
- **A** 21, 25

10 64, 59, 54, 49, ___ , ___

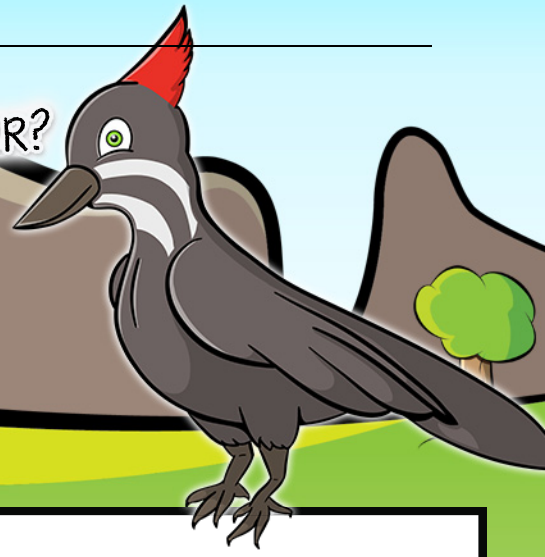
- **O** 39, 34
- **U** 54, 39
- **I** 45, 39
- **A** 44, 39

5	10	2	7		4	9	1	8	3	6	

Skill: Continuing patterns
CCSS: 4.0A.C.5

NAME: _____ DATE: _____

What did the tree say to the woodpecker?



DIRECTIONS

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

L 32	A 60	O 37	M 25	F 61	L 59
E 40	E 31	E 54	A 66	N 11	

LEGEND

Create a pattern in each of the problems below. Then find the given number in the pattern:

1. Start at 21 and create a pattern with the rule add 4.
What is the 5th number in the pattern?

2. Start at 51 and create a pattern with the rule add 3.
What is the 6th number in the pattern?

3. Start at 5 and create a pattern with the rule times 2.
What is the 4th number in the pattern?

4. Start at 3 and create a pattern with the rule add 2.
What is the 5th number in the pattern?

5. Start at 75 and create a pattern with the rule subtract 3.
What is the 6th number in the pattern?

6. Start at 2 and create a pattern with the rule times 3.
What is the 4th number in the pattern?

7. Start at 99 and create a pattern with the rule subtract 10.
What is the 5th number in the pattern?

8. Start at 10 and create a pattern with the rule add 5.
What is the 4th number in the pattern?

9. Start at 61 and create a pattern with the rule subtract 6.
What is the 6th number in the pattern?

10. Start at 12 and create a pattern with the rule add 10.
What is the 3rd number in the pattern?

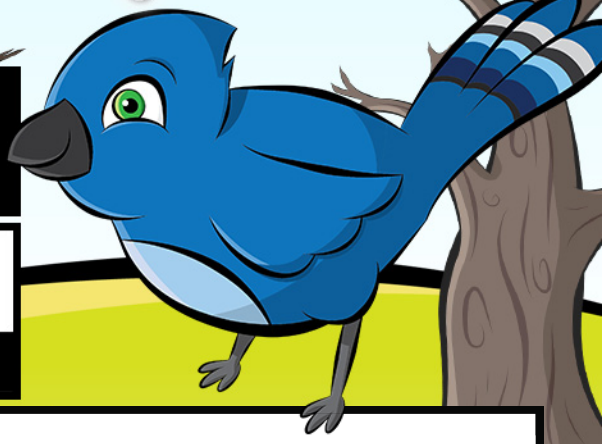
11. Start at 81 and create a pattern with the rule subtract 5.
What is the 5th number in the pattern?

10	6	2	11		8	3		5	7	1	4	9		

Skill: Creating a pattern with a given rule
CCSS: 4.0A.C.5

NAME: _____ DATE: _____

Why did the bird have a reputation for being mean?



DIRECTIONS

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

LEGEND

E 750	D 1,820	N 880	K 2,200	G 2,400	H 510
B 3,000	W 2,250	O 1,890	I 3,200	A 2,380	
S 1,100	M 3,120	C 840	R 600		

① 28 x 30 = _____	② 55 x 20 = _____	③ 40 x 60 = _____
④ 25 x 30 = _____	⑤ 64 x 50 = _____	⑥ 78 x 40 = _____
⑦ 34 x 70 = _____	⑧ 91 x 20 = _____	⑨ 51 x 10 = _____
⑩ 11 x 80 = _____	⑪ 15 x 40 = _____	⑫ 21 x 90 = _____
⑬ 75 x 30 = _____	⑭ 44 x 50 = _____	⑮ 60 x 50 = _____

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

Skill: Multiplication with multiples of 10
CCSS: 4.NBT.A.1

NAME: _____ DATE: _____

What did the policeman say as he climbed into bed?

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.

In the problems below, compare the values of each of the digits and then circle the correct answer:

1 205,675
The 5 in the thousands place is _____ the value of the 5 in the ones place.

B 10 times A 100 times C 1000 times L $\frac{1}{10}$

2 12,621
The 2 in the thousands place is _____ the value of the 2 in the tens place.

N 10 times M 100 times S 1000 times D $\frac{1}{10}$

3 5,330
The 3 in the hundreds place is _____ the value of the 3 in the tens place.

N 10 times L 100 times S 1000 times P $\frac{1}{10}$

4 2,562,361
The 2 in the millions place is _____ the value of the 2 in the thousands place.

P 10 times R 100 times V 1000 times B $\frac{1}{10}$

5 177
The 7 in the ones place is _____ the value of the 7 in the tens place.

S 10 times C 100 times D $\frac{1}{10}$ M $\frac{1}{100}$

6 558
The 5 in the hundreds place is _____ the value of the 5 in the tens place.

U 10 times A 100 times E $\frac{1}{10}$ I $\frac{1}{100}$

7 667,308
The 6 in the hundred thousands place is _____ the value of the 6 in the ten thousands place.

R 10 times P 100 times L 1000 times N $\frac{1}{10}$

8 699,909
The 9 in the hundreds place is _____ the value of the 9 in the ten thousands place.

B 10 times R 100 times T $\frac{1}{10}$ G $\frac{1}{100}$

9 225
The 2 in the tens place is _____ the value of the 2 in the hundreds place.

A 10 times D 100 times I $\frac{1}{10}$ E $\frac{1}{100}$

10 5,151
The 5 in the thousands place is _____ the value of the 5 in the tens place.

B 10 times E 100 times F $\frac{1}{10}$ D $\frac{1}{100}$

11 652,026
The 2 in the thousands place is _____ the value of the 2 in the tens place.

U 10 times O 100 times G $\frac{1}{10}$ H $\frac{1}{100}$

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

Skill: Examining whole number digit place values
CCSS: 4.NBT.A.1

NAME: ____________________ DATE: ____________________

What did the jockey say when his horse was sure they couldn't win?

DIRECTIONS

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

LEGEND

I 2,400	A 3,000	G 40	N 2,100	R 80
Y 90	O 1,000	H 5,600	E 50	
C 800	U 8,100	S 100	W 1,800	

(1) 20 x 50 = ______

(2) 70 x 30 = ______

(3) 80 x 10 = ______

(4) 90 x 20 = ______

(5) 1,200 ÷ 30 = ______

(6) 80 x 30 = ______

(7) 5,600 ÷ 70 = ______

(8) 90 x 90 = ______

(9) 70 x 80 = ______

(10) 7,200 ÷ 80 = ______

(11) 10 x 10 = ______

(12) 2,000 ÷ 40 = ______

(13) 60 x 50 = ______

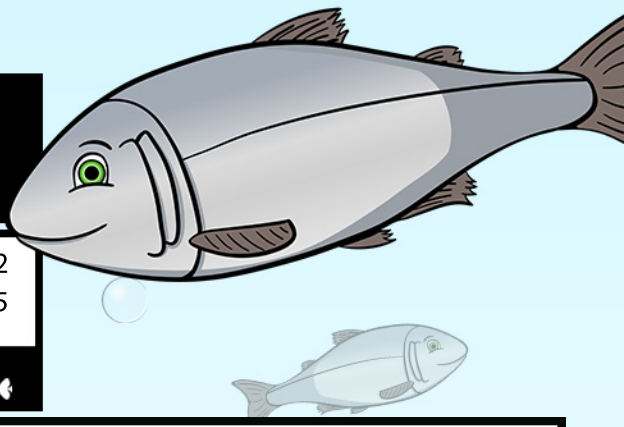
☐☐☐ ☐☐☐ ☐☐☐ ☐☐☐☐ ☐ ☐☐☐☐☐-☐☐☐☐☐?

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

Skill: Using place value to solve multiplication & division problems
CCSS: 4.NBT.A.2

NAME: _____ DATE: _____

What did the salmon say to his friend who swam upstream fastest?



DIRECTIONS

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

U 306,057	Y 713,366	R 22,202	R 15,361	Y 88,002
N 940,723	E 420,910	S 360,507	O 52,071	E 90,505
H 700,009	F 7,137	I 690,010	V 2,020	
E 50,020	T 15,301	E 50,220	I 74,386	

LEGEND

Match each expanded form number to its numeric form:

1. 10,000 + 5,000 + 300 + 60 + 1 _____
2. 300,000 + 60,000 + 500 + 7 _____
3. 50,000 + 20 _____
4. 70,000 + 4,000 + 300 + 80 + 6 _____
5. 400,000 + 20,000 + 900 + 10 _____
6. 300,000 + 6,000 + 50 + 7 _____
7. 2,000 + 20 _____
8. 90,000 + 500 + 5 _____
9. 10,000 + 5,000 + 300 + 1 _____
10. 80,000 + 8,000 + 2 _____
11. 600,000 + 90,000 + 10 _____
12. 700,000 + 10,000 + 3,000 + 300 + 60 + 6 _____
13. 50,000 + 200 + 20 _____
14. 700,000 + 9 _____
15. 50,000 + 2,000 + 70 + 1 _____
16. 7,000 + 100 + 30 + 7 _____
17. 20,000 + 2,000 + 200 + 2 _____
18. 900,000 + 40,000 + 700 + 20 + 3 _____

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

Skill: Converting between expanded form & numeric form
CCSS: 4.NBT.A.2

NAME: _____ DATE: _____

What kind of button isn't really to be pushed?

DIRECTIONS

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

LEGEND

Y 811,102	H 401,752	O 20,680	T 4,256	N 999,407
B 8,815	B 6,315	E 16,003	U 11,707	T 35,822
E 9,523	T 34,299	L 881,361	L 773,901	

Match each word form number to its numeric form:

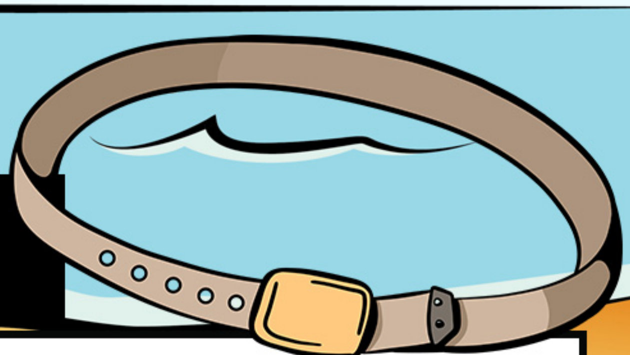
1. Four thousand, two hundred fifty-six _____
2. Seven hundred seventy-three thousand, nine hundred one _____
3. Nine thousand, five hundred twenty-three _____
4. Twenty thousand, six hundred eighty _____
5. Eight hundred eleven thousand, one hundred two _____
6. Six thousand, three hundred fifteen _____
7. Nine hundred ninety-nine thousand, four hundred seven _____
8. Sixteen thousand three _____
9. Thirty-five thousand, eight hundred, twenty-two _____
10. Eight hundred eighty-one thousand, three hundred sixty-one _____
11. Four hundred one thousand, seven hundred fifty-two _____
12. Eleven thousand, seven hundred seven _____
13. Thirty-four thousand, two hundred ninety-nine _____
14. Eight thousand, eight hundred fifteen _____

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

Skill: Converting between numeric number and word form
CCSS: 4.NBT.A.2

NAME: ______________________ DATE: ______________________

Why did the belt hide in shame after no one could wear him properly?



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 correct symbol to compare the numbers:

Problem	Comparison	Choices
1	3,050 ◯ 3,005	B < L > D =
2	715,600 ◯ 751,600	P < R > S =
3	15,660 ◯ 15,606	F < K > O =
4	808,503 ◯ 880,503	D < B > L =
5	717,000 ◯ 710,000 + 7,000	E < O > A =
6	61,200 ◯ 60,000 + 200	L < B > N =
7	20,000 + 5,000 + 70 ◯ 25,700	C < F > R =
8	5,000 + 20 + 3 ◯ 5,023	C < G > N =
9	2,000 + 700 + 7 ◯ 2,077	B < H > W =
10	30,060 ◯ 30,000 + 600	R < E > O =
11	9,013 ◯ 9,000 + 30 + 1	S < B > L =
12	10,000 + 500 + 3 ◯ 15,003	T < W > S =
13	90,000 + 400 ◯ 90,040	O < U > A =
14	27,015 ◯ 20,000 + 7,000 + 10 + 5	U < S > E =

☐☐ ☐☐☐ ☐☐☐☐☐☐☐ ☐☐☐☐☐

9 14 — 9 5 4 — 6 13 7 3 1 14 4 — 13 8 4 14 10

☐☐☐ ☐☐☐☐☐☐☐☐

12 9 14 — 2 10 14 11 11 13 10 14

Skill: Comparing numbers using <, >, and =
CCSS: 4.0A.C.5

NAME: _____ DATE: _____

What did the baby's leg say when he learned how to crawl?

DIRECTIONS

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

LEGEND

P 4,000,000	N 4,370,000	E 762,515,000	E 18,000,000
N 18,332,000	I 18,300,000	P 18,331,800	V 762,515,370
K 763,000,000	H 762,500,000	E 4,368,000	A 4,400,000
H 4,367,500	A 18,330,000	D 18,331,780	
E 762,520,000	A 4,367,510	I 762,515,400	

Round 4,367,512 to the given place:

(1) tens _____ (2) hundreds _____ (3) thousands _____

(4) ten thousands _____ (5) hundred thousands _____ (6) millions _____

Round 18,331,778 to the given place:

(7) millions _____ (8) hundred thousands _____ (9) ten thousands _____

(10) thousands _____ (11) hundreds _____ (12) tens _____

Round 762,515,372 to the given place:

(13) thousands _____ (14) millions _____ (15) tens _____

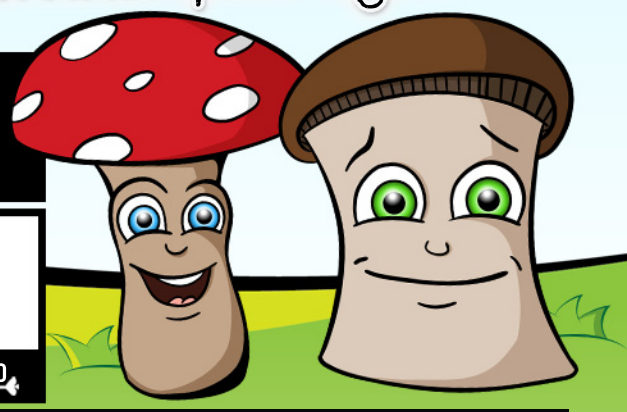
(16) hundred thousands _____ (17) hundreds _____ (18) ten thousands _____

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

Skill: Rounding to a given place
CCSS: 4.NBT.A.2

NAME: _____ DATE: _____

What did one fungus say to another when packaged?



DIRECTIONS

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

O 130	O 1,510	T 417	S 78	E 128	E 6,040
U 1,120	M 726	H 8,999	E 866	H 2,033	H 1185
I 10,233	N 107	I 6,018	S 139	N 665	R 480
E 132	R 13,460	T 21	M 3,206	R 79	

LEGEND

① 27 + 51 ② 33 + 99 ③ 66 + 13 ④ 12 + 9 ⑤ 88 + 42

⑥ 91 + 37 = ⑦ 56 + 51 =

⑧ 219 + 507 ⑨ 763 + 422 ⑩ 338 + 79 ⑪ 567 + 98 ⑫ 911 + 209

⑬ 519 + 347 = ⑭ 58 + 422 =

⑮ 4317 + 5916 ⑯ 7642 + 1357 ⑰ 5298 + 8162 ⑱ 1007 + 503 ⑲ 6014 + 26

⑳ 5019 + 999 = ㉑ 28 + 3178 =

㉒ Christian collected 51 baseball cards. Joseph collected 88 baseball cards over a period of 2 years. How many baseball cards do Christian and Joseph have altogether?

㉓ On an airplane, Sadie traveled 1,516 miles on her first flight and 517 miles on her second flight. How many miles did she fly altogether?

					,					–									
10	23	2	17	6	15	22	11	4	21	12	1	16	14	5	18	8	20	7	9	13	3	19

Skill: Adding up to four digit numbers
CCSS: 4.NBT.B.4

NAME: _____ DATE: _____

Why were the trees tired of the lumberjack?

DIRECTIONS

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

LEGEND

S 623	X 3,812	E 4,254	A 3,219	E 517	T 22
T 175	N 285	M 2	O 48	Y 252	O 33
Q 7,159	D 6,349	O 8,289	U 2,315	A 53	
E 29	N 79	I 28	H 4	S 51	

(1) $\begin{array}{r} 56 \\ -\ 8 \\ \hline \end{array}$ (2) $\begin{array}{r} 41 \\ -\ 12 \\ \hline \end{array}$ (3) $\begin{array}{r} 89 \\ -\ 36 \\ \hline \end{array}$ (4) $\begin{array}{r} 98 \\ -\ 19 \\ \hline \end{array}$ (5) $\begin{array}{r} 71 \\ -\ 43 \\ \hline \end{array}$

(6) 32 – 10 = (7) 62 – 58 =

(8) $\begin{array}{r} 339 \\ -\ 54 \\ \hline \end{array}$ (9) $\begin{array}{r} 719 \\ -\ 96 \\ \hline \end{array}$ (10) $\begin{array}{r} 105 \\ -\ 103 \\ \hline \end{array}$ (11) $\begin{array}{r} 814 \\ -\ 297 \\ \hline \end{array}$ (12) $\begin{array}{r} 492 \\ -\ 317 \\ \hline \end{array}$

(13) 518 – 266 = (14) 238 – 205 =

(15) $\begin{array}{r} 7185 \\ -\ 26 \\ \hline \end{array}$ (16) $\begin{array}{r} 3718 \\ -\ 499 \\ \hline \end{array}$ (17) $\begin{array}{r} 9001 \\ -\ 2652 \\ \hline \end{array}$ (18) $\begin{array}{r} 6912 \\ -\ 3100 \\ \hline \end{array}$ (19) $\begin{array}{r} 8447 \\ -\ 4193 \\ \hline \end{array}$

(20) 4478 – 2163 = (21) 9342 – 1053 =

(22) A TV at one store costs $1,399. The same TV costs $1,450 at another store. How much money can you save by buying the TV at the first store?

7	19	3	18	11	17	6	14	1	10	16	4	13	15	20	2	22	12	5	21	8	9

Skill: Subtracting up to four digit numbers
CCSS: 4.NBT.B.4

NAME: _____ DATE: _____

What has a face and can tell time, yet can't talk?

DIRECTIONS

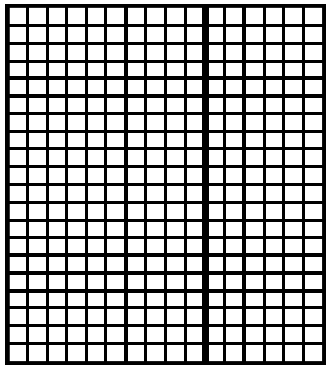
Solve the following problems and match your answers to the answers in the **Legend**. Then record the corresponding letter in the rectangles below to answer the riddle.
Note: The problem numbers match the numbered rectangles.

A 250	W 180	T 320	C 420
L 290	A 460	H 150	

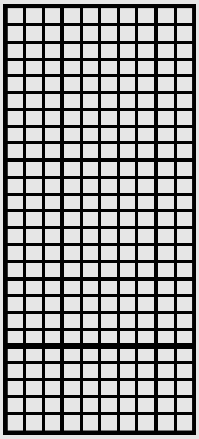
LEGEND

Use the given array to solve each of the problems below:

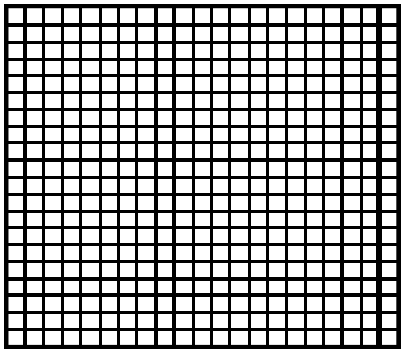
1. 20 x 16 =



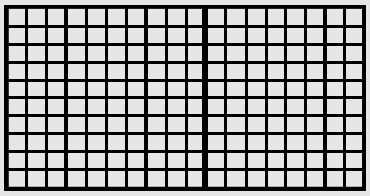
2. 25 x 10 =



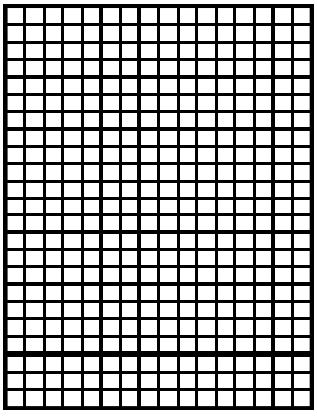
3. 20 x 21 =



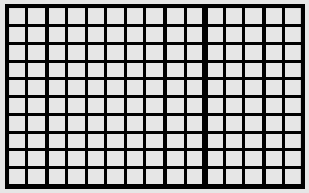
4. 10 x 18 =

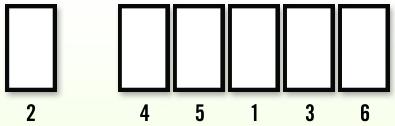


5. 23 x 20 =



6. 10 x 15 =

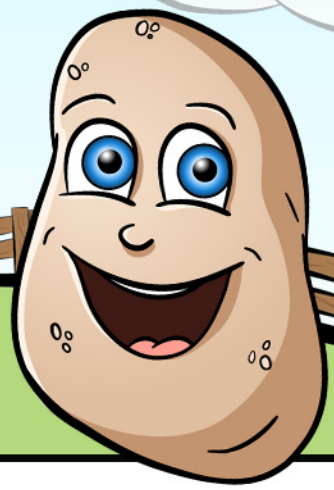




Skill: Multiplying using arrays with factors of 10
CCSS: 4.NBT.B.5

NAME: _____ DATE: _____

Which day do potatoes hate the most?



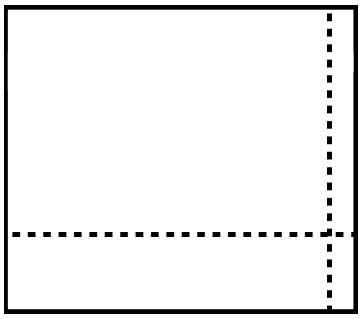
DIRECTIONS

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

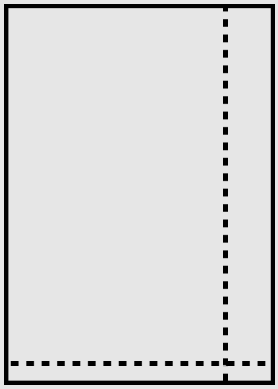
Y 702	R 868	Y 814	A 1,066
F 1,156	M 952	D 1,518	LEGEND

Use the given array to solve each of the problems below:

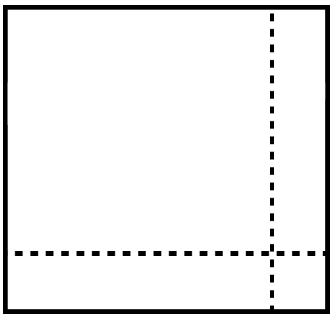
① 28 x 31 =



② 41 x 26 =

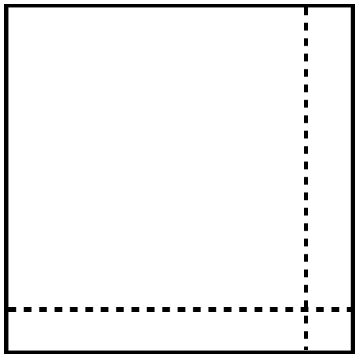


③ 27 x 26 =

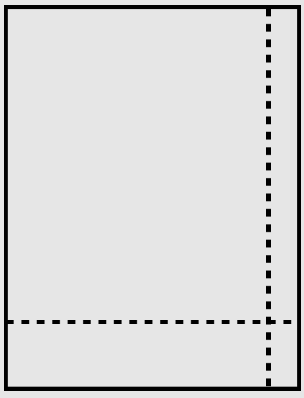


④ 33 x 46 =

⑤ 34 x 34 =



⑥ 37 x 22 =



			–			
5	1	6		4	2	3

Skill: Multiplying using arrays
CCSS: 4.NBT.B.5

NAME: _____ DATE: _____

Why did the Royal thumb keep a pad of ink around?

DIRECTIONS

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

LEGEND

C 333	A 296	M 906	N 17,806	S 297
P 3,150	R 8,736	T 414	G 306	F 4,585
I 18,042	E 18,519	W 1,827	H 20,764	

① 37 x 8	② 51 x 6	③ 37 x 9	④ 99 x 3
⑤ 207 x 2	⑥ 917 x 5	⑦ 450 x 7	⑧ 609 x 3
⑨ 1092 x 8	⑩ 5191 x 4	⑪ 3007 x 6	⑫ 8903 x 2
⑬ 6173 x 3			

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

Skill: Multiplying up to four digits by one digit
CCSS: 4.NBT.B.4

NAME: ______________________________ DATE: ____________________

Why did the jacket keep a pen in his pocket?

DIRECTIONS

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

LEGEND

L 20 R4	R 102 R6	D 200 R1	H 103 R2	K 30 R3
T 90 R6	G 50 R5	W 80 R1	A 50 R4	N 101 R2
O 140 R2	I 203 R2	S 90 R2	E 30 R1	

1. $4\overline{)123}$
2. $5\overline{)702}$
3. $8\overline{)641}$
4. $6\overline{)305}$
5. $6\overline{)620}$
6. $8\overline{)164}$
7. $5\overline{)254}$
8. $6\overline{)608}$
9. $3\overline{)611}$
10. $8\overline{)726}$
11. $2\overline{)401}$
12. $7\overline{)720}$
13. $4\overline{)121}$
14. $5\overline{)452}$

☐☐ ☐☐☐☐☐ ☐☐ ☐☐☐☐–☐☐☐☐☐☐☐

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

Skill: Dividing by one digit with remainders
CCSS: 4.NBT.B.6

NAME: _____ DATE: _____

Why did the girl decide to learn sign language?

DIRECTIONS

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

LEGEND

I 59 R5	Y 87	L 49 R3
D 67 R3	A 43 R5	T 170 R3
N 28 R4	H 119 R9	S 250 R2

① $6\overline{)263}$

② $5\overline{)853}$

③ $4\overline{)271}$

④ $9\overline{)256}$

⑤ $3\overline{)752}$

⑥ $7\overline{)609}$

⑦ $9\overline{)536}$

⑧ $8\overline{)953}$

		’									
7	2		5		8	1	4	3	6		

Skill: Dividing with partial quotients
CCSS: 4.NBT.B.6

NAME: _____ DATE: _____

What did the baker say to the leader in the bread-eating contest?

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.

Determine which choice is the best estimate in each of the problems below:

1 146 ÷ 72 =
- A 7
- R 3
- P 2
- C 9

2 456 ÷ 53 =
- D 9
- M 2
- L 5
- T 6

3 127 ÷ 33 =
- O 2
- A 4
- S 5
- G 3

4 275 ÷ 70 =
- A 5
- N 3
- B 2
- E 4

5 246 ÷ 44 =
- Y 6
- C 7
- S 5
- T 3

6 160 ÷ 33 =
- P 4
- R 6
- S 5
- H 7

7 52 ÷ 22 =
- E 4
- Q 3
- O 1
- U 2

8 176 ÷ 61 =
- M 5
- N 3
- J 4
- K 2

9 149 ÷ 31 =
- P 6
- M 4
- R 5
- V 3

10 361 ÷ 41 =
- E 6
- W 8
- R 7
- T 9

11 558 ÷ 68 =
- L 8
- N 9
- S 5
- T 7

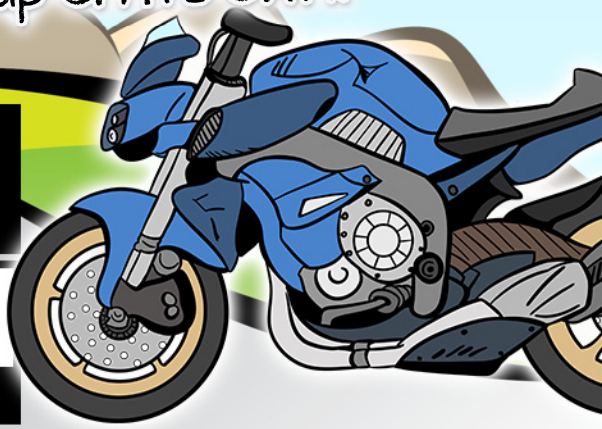
12 131 ÷ 63 =
- A 1
- U 3
- O 2
- I 4

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

Skill: Estimating quotients
CCSS: 4.NBT.B.6

NAME: _____ DATE: _____

Why couldn't the motorcycle stand up on its own?



DIRECTIONS

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

E 234 R1	D 116 R1	I 74 R6	O 69 R1	W 162 R3
T 104 R2	R 158 R3	T 51 R1	L 174 R3	A 66 R6
W 239 R2	S 131 R2	I 151 R1	T 101 R5	

LEGEND

Divide. Leave your answer with a remainder:

① $5\overline{)657}$ ② $6\overline{)907}$ ③ $5\overline{)522}$ ④ $5\overline{)813}$

⑤ $4\overline{)937}$ ⑥ $9\overline{)672}$ ⑦ $7\overline{)813}$ ⑧ $8\overline{)534}$

⑨ $3\overline{)719}$ ⑩ $9\overline{)622}$ ⑪ $8\overline{)409}$ ⑫ $7\overline{)712}$

⑬ $6\overline{)951}$

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

Skill: Dividing three-digit numbers by one-digit numbers with remainder
CCSS: 4.NBT.B.6

NAME: _____ DATE: _____

Why do skunks celebrate Valentine's Day?

DIRECTIONS

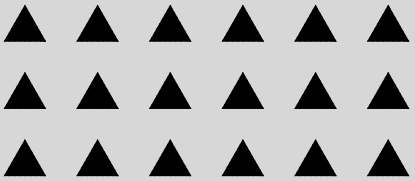
Solve the following problems in the sections below. Then record the corresponding letter of the correct answer in the rectangles at the bottom to answer the riddle.
Note: The problem numbers match the numbered rectangles.

There are 15 shapes.
(Problems 1–2)

(1) How many groups of 4 can you make?
A 2 C 3 F 4

(2) How many remain?
R 1 B 2 H 3

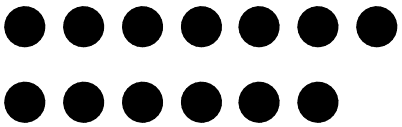
There are 18 shapes.
(Problems 3–4)



(3) How many groups of 5 can you make?
Y 3 D 4 M 5

(4) How many remain?
A 2 I 3 E 4

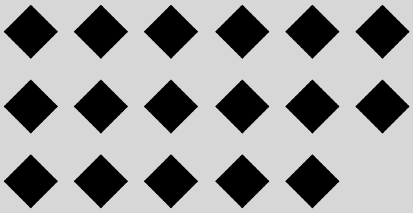
There are 13 shapes.
(Problems 5–6)



(5) How many groups of 7 can you make?
A 1 O 2 E 3

(6) How many remain?
R 5 L 6 P 7

There are 17 shapes.
(Problems 7–8)



(7) How many groups of 5 can you make?
M 2 R 3 P 4

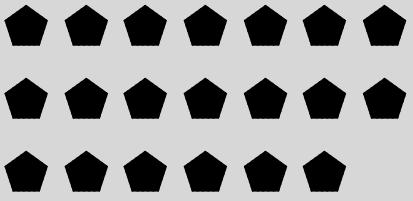
(8) How many remain?
S 2 A 3 E 4

There are 15 shapes.
(Problems 9–10)

(9) How many groups of 2 can you make?
N 5 O 6 M 7

(10) How many remain?
N 1 B 2 R 3

There are 20 shapes.
(Problems 11–12)



(11) How many groups of 6 can you make?
T 3 C 4 F 5

(12) How many remain?
O 1 E 2 U 3

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

Skill: Dividing using visual representation
CCSS: 4.NBT.B.6

NAME: _____ DATE: _____

What was the pessimist's blood type?

DIRECTIONS

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

G 9	B 107	I 26	N 44	V 24
M 32	A 5	T 1	E 14	LEGEND

1. Julie ordered 156 pens to distribute within her class. If she gave each student 6 pens, how many students does she have in her class?

_____ students

2. A florist is providing vases of flowers for a banquet. She has 396 flowers. If each vase holds 9 flowers, how many vases will be at the banquet?

_____ vases

3. A school purchased 54 new computers. If each classroom gets six new computers, how many classrooms are there?

_____ classrooms

4. A piece of ribbon is 120 cm long. If the ribbon is cut into five equal pieces, how long will each piece of the ribbon be?

_____ cm

5. Finn bought 215 juice boxes. He drinks two juice boxes a day. After how many days will he no longer be able to drink two juice boxes?

_____ days

6. Jen's little sister, Sonia, likes to play with toy animals. Sonia has four friends coming over. If she evenly distributes 41 toy animals among herself and her friends, how many toy animals will be left over?

_____ toy animal(s)

7. A hotel ordered 515 lamps. If each room gets 6 lamps, how many lamps will be leftover once they are distributed among the hotel rooms?

_____ lamps

8. Adley had 99 lollipops, which she distributed evenly among 7 friends. She took the remainder home. How many lollipops did each of her friends get?

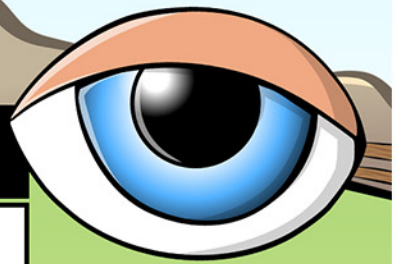
_____ lollipops

	–							
5		2	8	3	7	6	1	4	8

Skill: Division word problems with and without remainders
CCSS: 4.NBT.B.6

NAME: _____ DATE: _____

Why was the eye worried?



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

A 4	N 8	G 24	L 6	E 30
M 12	H 7	W 2	T 18	B 72
S 5	I 48	F 999	O 63	D 9

LEGEND

Find the number that correctly fills in the blank:

1. 28 is 4 times as many as **7 H**.
2. 6 times as many as 5 is **30 E**.
3. 15 is **5 S** times as many as 3.
4. 9 times as many as 2 is **18 T**.
5. 42 is **6 L** times as many as 7.
6. 8 times as many as 3 is **24 G**.
7. 54 is 6 times as many as **9 D**.
8. 16 is **4 A** times as many as 4.
9. 9 times as many as 8 is **72 B**.
10. 88 is 11 times as many as **8 N**.
11. 12 times as many as 4 is **48 I**.
12. 18 is 9 times as many as **2 W**.
13. 7 times as many as 9 is **63 O**.

S	H	E	W	A	S	T	O	L	D	S	H	E	'	D	B	E	G	E	T	T	I	N	G	L	A	S	H	E	S
3	1	2	12	8	3	4	13	5	7	3	1	2	7		9	2	6	2	4	4	11	10	6	5	8	3	1	2	3

Skill: Interpreting multiplication
CCSS: 4.0A.A.1

NAME: _____ DATE: _____

What kind of shoes does bread like to wear?

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

A 2	P 18	R 16	E 10
O 4	L 21	F 3	S 5

LEGEND

1. A shoe store sold 4 times as many women's shoes as men's shoes in an hour. The store sold 4 pairs of men's shoes that hour. How many pairs of women's shoes did it sell?
   16 R pairs
2. Joseph did 20 jumping jacks and 10 sit-ups. How many times more jumping jacks did he do than sit-ups?
   2 A
3. There were 15 boys in line to buy ice cream. That is 3 times the amount of girls in line. How many girls were in line to buy ice cream?
   5 S girls
4. The long sides of a rectangle are 3 times as long as its short sides. Its short sides are 7 inches long. How long are the rectangle's long sides?
   21 L inches
5. Ava rode her bike 10 miles. She walked 1 mile. How many times more miles did she ride her bike than walk?
   10 E times
6. Christian sent 5 text messages. Vivian sent 15 text messages. How many more text messages did Vivian send than Christian?
   3 F text messages
7. In a hockey game, Sam missed twice as many shots as he made. He made 2 goals. How many shots did he miss?
   4 O shots

L	O	A	F	-	E	R	S
4	7	2	6		5	1	3

Skill: Multiplying or dividing to solve word problems involving multiplicative comparison
CCSS: 4.0A.A.2

NAME: _____ DATE: _____

What article of clothing likes to rock out with his band?

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

A 1	M 5	A 2	S 6
P 3	A 7	L 4	J 8

LEGEND

In each word problem, interpret the shown remainder to determine the answer:

1. Mr. Kramer needs 50 juice boxes for a field trip with his students. If 8 juice boxes come in a package, how many packages does he need to buy?
   50 ÷ 8 = 6 R2 **7 A** packages

2. A large bowl holds 25 oz of granola. If you want to pour the granola into 4 smaller bowls with the same amount in each bowl, how many ounces would be in each smaller bowl?
   25 ÷ 4 = 6 R1 **6 S** oz.

3. A shipping package can hold 8 boxes of crayons. If a crayon factory has 67 boxes of crayons to ship and all but the last shipping package is filled to capacity, how many boxes of crayons will be in the last shipping package that isn't full?
   67 ÷ 8 = 8 R3 **3 P** boxes

4. Julian has 10 candy bars to distribute among himself and 3 friends. He plans to distribute the bars evenly and bring the rest home to his mom. How many candy bars will Julian give his mom?
   10 ÷ 4 = 2 R2 **2 A** candy bars

5. A restaurant needs to buy 30 more glasses. If the glasses come 4 in a box, how many boxes do they need to order?
   30 ÷ 4 = 7 R2 **8 J** boxes

6. A school had 20 students sign up for a jump rope contest. There needs to be 3 students on each team. How many more students need to sign up in order to have an additional complete team?
   20 ÷ 3 = 6 R2 **1 A** student(s)

7. A librarian wanted to pack 28 books into boxes. Each box held 5 books. She decided to pack as many boxes as she could fill completely and pack any remaining books next time. How many boxes did she pack?
   28 ÷ 5 = 5 R3 **5 M** boxes

P	A	-	J	A	M	-	A	S
3	6		5	1	7		4	2

Skill: Interpreting remainders in division word problems
CCSS: 4.0A.A.3

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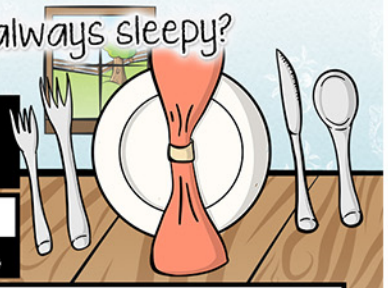
NAME: _____ DATE: _____

What part of the place setting is always sleepy?



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

L 21	N 17	H 8	A 30	N 2
K 6	I 13	T 3	P 45	E 40

LEGEND

1. Neal had 7 shirts to give away. If he donated 5 to a charity, how many does he still have to give away?
   2 N

2. 5 students from Mrs. Kim's class and 8 students from Mr. Cooper's class signed up for the talent show. How many students total from the 2 classes signed up?
   13 I

3. The freshwater section of an aquarium had 32 large freshwater fish distributed evenly in 4 large tanks. How many fish were in each tank?
   8 H

4. A packing box can hold 6 jars of jam each. If 5 packing boxes are filled, how many jars will be packed up?
   30 A

5. Bella bought 4 notebooks to add to the 2 she has in her backpack. How many notebooks does she have total?
   6 K

6. Each shelf in a 4-shelf bookshelf holds 10 encyclopedias. How many encyclopedias can the bookshelf hold?
   40 E

7. Sammy Jo had 27 markers. She gave 10 to her friend Ava. How many markers does Sammy Jo have now?
   17 N

8. Rico bought a pizza to share evenly between himself and 3 friends. The pizza was cut into 12 slices. How many slices of pizza does each person get?
   3 T

9. On Halloween, Jill collected 49 pieces of candy. She ate 4 pieces that night. How many pieces were leftover?
   45 P

T	H	E		N	A	P	-	K	I	N
8	3	6		1	4	9		5	2	7

Skill: Solving word problems with 4 operations
CCSS: 4.0A.A.3

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NAME: _____ DATE: _____

What has 4 legs, yet can't walk?

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

LEGEND

L 60	A 25	A 18	E 72
T 140	N 55	B 420	

1. Shawn bought a 12-pack of soda. Each soda had 175 calories. If shawn drank the soda over 5 days, and consumed exactly the same amount each day, how many calories did he drink each day?
   420 B calories

2. For 2 weeks, Jenny and Greg each collected cans of food to donate to the homeless shelter. Jenny collected 45 cans and Greg collected 4 times as many cans as Jenny. At the end of 2 weeks, they combined their cans and distributed them among 9 boxes. How many cans fit in each box?
   25 A cans

3. Andrea spent 90 minutes on the computer for 4 days in a week. The next week she spent the same total amount of time on the computer, but spread her time evenly over 5 days of the week. How many minutes did she spend on the computer each of the 5 days?
   72 E minutes

4. Jason bought 12 boxes of pencils for $146, with each box containing 40 pencils. He then distributed the pencils evenly among 8 supply offices in his workplace. How many pencils will go in each office?
   60 L pencils

5. Diana rode her bicycle 15 miles a day each day for a week. The next week she rode 35 more total miles than the total the week prior. How many total miles did she ride the second week?
   140 T miles

6. James traded in 15 old video games for 3 new ones. Then he sold the new video games for $60 each. With the money he received, he bought 10 dolls and donated them to a holiday toy charity. How much did each doll cost?
   18 A dollars

A	T	A	B	L	E
2	5	6	1	4	3

Skill: Solving two-step problems
CCSS: 4.0A.A.3

NAME: _____ DATE: _____

What did the pharmacist say to the grumpy medicine?

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 is not a factor of 12?
   A 3 T 4 **O 5** G 6
2. Which is not a factor of 45?
   M 3 **L 4** A 5 B 15
3. Which is a factor of 11?
   E 11 G 7 S 3 N 2
4. Which is not a factor of 18?
   O 3 **T 10** L 6 E 2
5. Which is not a factor of 60?
   Z 15 N 4 R 30 **H 16**
6. Which is a factor of 77?
   A 3 **P 11** T 15 W 12
7. Which is not a factor of 81?
   B 3 U 9 **A 2** Q 27
8. Which is not a factor of 50?
   B 25 **N 12** R 10 O 5
9. Which is not a factor of 56?
   F 8 **B 5** M 4 Y 2
10. Which is a factor of 70?
    A 18 E 4 X 17 **O 10**
11. Which is a factor of 28?
    R 13 S 18 **D 4** W 6
12. Which is not a factor of 93?
    L 9 M 3 F 31 B 93
13. Which is a factor of 48?
    O 11 A 20 **I 24** U 13

O	H	,	D	O	N	'	T	B	E	A	P	I	L	L
10	5		11	1	8		4	9	3	7	6	13	2	12

Skill: Finding factors for whole numbers between 1 and 100
CCSS: 4.0A.B.4

NAME: _____ DATE: _____

Which fruit couldn't run away and get married when his parents objected?

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 is a factor of 15, but not a multiple of 3?
   R 9 **A 5** S 4 L 6
2. Which number is a factor of 24, but not a multiple of 3?
   B 12 M 16 **H 8** P 7
3. Which number is a factor of 40, but not a multiple of 5?
   E 8 S 10 O 20 R 3
4. Which number is a factor of 16, but not a multiple of 4?
   A 10 C 6 L 8 **O 2**
5. Which number is a factor of 50, but not a multiple of 2?
   S 10 **T 25** B 14 R 20
6. Which number is a factor of 21, but not a multiple of 7?
   A 14 P 5 O 2 **E 3**
7. Which number is a factor of 81, but not a multiple of 9?
   R 27 **L 3** S 9 C 18
8. Which number is a factor of 22, but not a multiple of 2?
   D 4 **E 11** G 6 K 7
9. Which number is a factor of 60, but not a multiple of 2?
   E 4 F 6 **N 15** S 7
10. Which number is a factor of 18, but not a multiple of 9?
    S 8 **T 6** J 9 M 4
11. Which number is a factor of 44, but not a multiple of 2?
    P 11 S 4 R 22 D 32
12. Which number is a factor of 20, but not a multiple of 4?
    D 6 B 12 **C 5** P 8

T	H	E		C	A	N	T	–	E	L	O	P	E
10	2	6		12	1	9	5		3	7	4	11	8

Skill: Identifying factors and multiples
CCSS: 4.OA.B.4

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NAME: _____ DATE: _____

Why was the banana's license taken away?

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 is prime?
   R 6 **T 7** M 8 U 9
2. Which number is prime?
   E 53 O 27 T 33 L 81
3. Which number is prime?
   L 44 S 15 **O 31** A 51
4. Which number is prime?
   M 47 N 57 Q 63 B 16
5. Which number is prime?
   T 36 S 8 **Y 11** P 9
6. Which number is prime?
   W 9 M 6 B 10 **H 2**
7. Which number is prime?
   O 27 **A 17** U 33 I 46
8. Which number is composite?
   R 2 M 7 **P 9** S 11
9. Which number is composite?
   I 51 A 61 O 71 U 89
10. Which number is composite?
    Z 53 L 3 R 23 **N 57**
11. Which number is not composite?
    R 15 K 18 P 81 **L 83**
12. Which number is neither prime nor composite?
    D 1 B 5 S 8 T 22
13. Which number is not prime?
    D 43 **S 39** R 17 Y 13
14. Which number is not composite?
    F 91 P 99 **U 97** N 93

H	E		P	E	E	L	E	D		O	U	T		T	O	O		M	A	N	Y		T	I	M	E	S
6	2		8	2	2	11	2	12		3	14	1		1	3	3		4	7	10	5		1	9	4	2	13

Skill: Identifying prime numbers
CCSS: 4.OA.B.4

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NAME: _____ DATE: _____

Why did the cat smell so good?

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

LEGEND

I 2x23	P 3x3x3x3	E 2x2x2x2	U 2x2x2x2x3
S 3x3x7	A 3x19	W 2x47	M 2x2x2x3
N 2x2x11	T 5x5x5	H 2x3x3	
R 5x17	F 5x5	G 3x5	

Find the prime factors of each:

① 18 H
2 9
3 3

② 44 N
4 11
2 2

③ 81 P
9 9
3 3 3 3

④ 15 G
3 5

⑤ 46 I
2 23

⑥ 25 F
5 5

⑦ 24 M
2 12
2 6
2 3

⑧ 57 A
3 19

⑨ 63 S
3 21
3 7

⑩ 94 W
2 47

⑪ 48 U
2 24
2 12
2 6
2 3

⑫ 16 E
2 8
2 4
2 2

⑬ 85 R
5 17

S	H	E		W	A	S		W	E	A	R	I	N	G		P	U	R	R	–	F	U	M	E
9	1	12		10	8	9		10	12	8	13	5	2	4		3	11	13	13		6	11	7	12

Skill: Prime factorization
CCSS: 4.0A.B.4

NAME: _____ DATE: _____

Why was the tooth looking for his long lost relatives?

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 is a multiple of 8?
B 44 K 52 **F 64** R 77

② Which number is a multiple of 6?
W 84 S 91 B 16 L 22

③ Which number is a multiple of 12?
N 25 P 54 B 66 **R 72**

④ Which number is a multiple of 2?
E 15 **A 98** R 47 U 77

⑤ Which number is a multiple of 5?
B 71 **H 85** M 44 W 6

⑥ Which number is a multiple of 15?
L 20 D 25 P 65 **S 45**

⑦ Which number is a multiple of 3?
R 22 **D 57** L 10 B 61

⑧ Which number is a multiple of 11?
S 3 K 26 **N 88** X 56

⑨ Which number is a multiple of 7?
I 91 O 27 U 59 E 68

⑩ Which number is a multiple of 4?
I 42 K 50 C 62 **E 8**

⑪ Which number is a multiple of 10?
T 100 S 55 M 41 P 11

⑫ Which number is a multiple of 9?
E 15 P 75 **O 45** S 100

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

Skill: Determining if a number is a multiple
CCSS: 4.0A.B.4

NAME: _____ DATE: _____

What was the hand's favorite holiday?

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 letter that best completes the pattern:

1. 85, 76, 67, 58, ___ , ___
   - P 50, 42
   - N 49, 40
   - S 67, 76
   - L 51, 49

2. 53, 63, 73, 83, ___ , ___
   - L 93, 103
   - R 103, 113
   - Y 93, 113
   - B 99, 109

3. 49, 44, 39, 34, ___ , ___
   - F 24, 19
   - O 29, 19
   - C 19, 4
   - A 29, 24

4. 77, 80, 83, 86, ___ , ___
   - B 88, 92
   - R 89, 91
   - S 89, 92
   - M 92, 94

5. 108, 99, 90, 81, ___ , ___
   - K 72, 62
   - C 71, 62
   - P 72, 63
   - R 80, 71

6. 11, 22, 33, 44, ___ , ___
   - R 54, 65
   - Y 55, 66
   - P 55, 65
   - E 54, 66

7. 41, 49, 57, 65, ___ , ___
   - M 73, 81
   - K 71, 80
   - S 72, 80
   - P 70, 80

8. 15, 20, 25, 30, ___ , ___
   - P 40, 45
   - D 35, 40
   - F 40, 50
   - R 35, 30

9. 10, 13, 16, 19, ___ , ___
   - I 21, 23
   - O 22, 24
   - U 22, 25
   - A 21, 25

10. 64, 59, 54, 49, ___ , ___
    - O 39, 34
    - U 54, 39
    - I 45, 39
    - A 44, 39

P	A	L	M		S	U	N	D	A	Y
5	10	2	7		4	9	1	8	3	6

Skill: Continuing patterns
CCSS: 4.0A.C.5

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NAME: _____ DATE: _____

What did the tree say to the woodpecker?

DIRECTIONS

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

LEGEND

L 32	A 60	O 37	M 25	F 61	L 59
E 40	E 31	E 54	A 66	N 11	

Create a pattern in each of the problems below. Then find the given number in the pattern:

1. Start at 21 and create a pattern with the rule add 4.
   What is the 5th number in the pattern?
   21 25 29 33 **37** 41
   O

2. Start at 51 and create a pattern with the rule add 3.
   What is the 6th number in the pattern?
   51 54 57 60 63 **66**
   A

3. Start at 5 and create a pattern with the rule times 2.
   What is the 4th number in the pattern?
   5 10 20 **40** 80 160
   E

4. Start at 3 and create a pattern with the rule add 2.
   What is the 5th number in the pattern?
   3 5 7 9 **11** 13
   N

5. Start at 75 and create a pattern with the rule subtract 3.
   What is the 6th number in the pattern?
   75 72 69 66 63 **60**
   A

6. Start at 2 and create a pattern with the rule times 3.
   What is the 4th number in the pattern?
   2 6 18 **54** 162 486
   E

7. Start at 99 and create a pattern with the rule subtract 10.
   What is the 5th number in the pattern?
   99 89 79 69 **59** 49
   L

8. Start at 10 and create a pattern with the rule add 5.
   What is the 4th number in the pattern?
   10 15 20 **25** 30 35
   M

9. Start at 61 and create a pattern with the rule subtract 6.
   What is the 6th number in the pattern?
   61 55 49 43 37 **31**
   E

10. Start at 12 and create a pattern with the rule add 10.
    What is the 3rd number in the pattern?
    12 22 **32** 42 52 62
    L

11. Start at 81 and create a pattern with the rule subtract 5.
    What is the 5th number in the pattern?
    81 76 71 66 **61** 56
    F

L	E	A	F		M	E		A	L	O	N	E
10	6	2	11		8	3		5	7	1	4	9

Skill: Creating a pattern with a given rule
CCSS: 4.0A.C.5

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NAME: _____ DATE: _____

Why did the bird have a reputation for being mean?

DIRECTIONS

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

LEGEND

E 750	D 1,820	N 880	K 2,200	G 2,400	H 510
B 3,000	W 2,250	O 1,890	I 3,200	A 2,380	
S 1,100	M 3,120	C 840	R 600		

① 28 x 30 = 840 C	② 55 x 20 = 1100 S	③ 40 x 60 = 2400 G
④ 25 x 30 = 750 E	⑤ 64 x 50 = 3200 I	⑥ 78 x 40 = 3120 M
⑦ 34 x 70 = 2380 A	⑧ 91 x 20 = 1820 D	⑨ 51 x 10 = 510 H
⑩ 11 x 80 = 880 N	⑪ 15 x 40 = 600 R	⑫ 21 x 90 = 1890 O
⑬ 75 x 30 = 2250 N	⑭ 44 x 50 = 2200 K	⑮ 60 x 50 = 3000 B

H	E		W	A	S		A		M	O	C	K	I	N	G	B	I	R	D
9	4		13	7	2		7		6	12	1	14	5	10	3	15	5	11	8

Skill: Multiplication with multiples of 10
CCSS: 4.NBT.A.1

NAME: _____ DATE: _____

What did the policeman say as he climbed into bed?

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.

In the problems below, compare the values of each of the digits and then circle the correct answer:

① 205,675
The 5 in the thousands place is _____ the value of the 5 in the ones place.
B 10 times A 100 times **C 1000 times** L 1/10

② 12,621
The 2 in the thousands place is _____ the value of the 2 in the tens place.
N 10 times **M 100 times** S 1000 times D 1/10

③ 5,033
The 3 in the hundreds place is _____ the value of the 3 in the tens place.
N 10 times L 100 times S 1000 times P 1/10

④ 2,562,361
The 2 in the millions place is _____ the value of the 2 in the thousands place.
P 10 times R 100 times **V 1000 times** B 1/10

⑤ 177
The 7 in the ones place is _____ the value of the 7 in the tens place.
S 10 times C 100 times **D 1/10** M 1/100

⑥ 558
The 5 in the hundreds place is _____ the value of the 5 in the tens place.
U 10 times A 100 times E 1/10 I 1/100

⑦ 667,308
The 6 in the hundred thousands place is _____ the value of the 6 in the ten thousands place.
R 10 times P 100 times L 1000 times N 1/10

⑧ 699,909
The 9 in the hundreds place is _____ the value of the 9 in the ten thousands place.
B 10 times R 100 times T 1/10 **G 1/100**

⑨ 225
The 2 in the tens place is _____ the value of the 2 in the hundreds place.
A 10 times D 100 times **I 1/10** E 1/100

⑩ 5,151
The 5 in the thousands place is _____ the value of the 5 in the tens place.
B 10 times **E 100 times** F 1/10 D 1/100

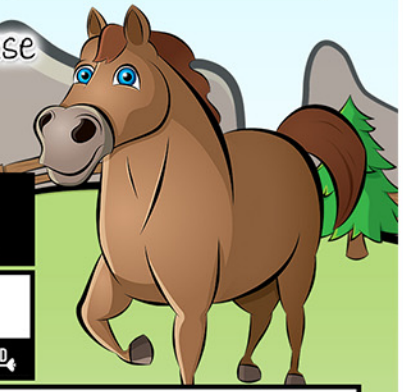
⑪ 652,026
The 2 in the thousands place is _____ the value of the 2 in the tens place.
U 10 times **O 100 times** G 1/10 H 1/100

I	M		G	O	I	N	G		U	N	D	E	R	C	O	V	E	R
9	2		8	11	9	3	8		6	3	5	10	7	1	11	4	10	7

Skill: Examining whole number digit place values
CCSS: 4.NBT.A.1

NAME: _____ DATE: _____

What did the jockey say when his horse was sure they couldn't win?



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

LEGEND

I 2,400	A 3,000	G 40	N 2,100	R 80
Y 90	O 1,000	H 5,600	E 50	
C 800	U 8,100	S 100	W 1,800	

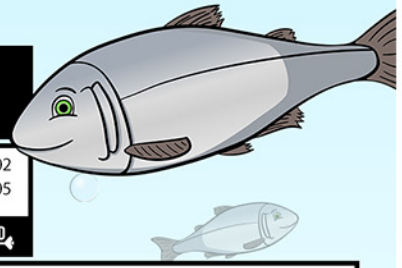
① 20 x 50 = 1100 O
② 70 x 30 = 2100 N
③ 80 x 10 = 800 C
④ 90 x 20 = 1800 N
⑤ 1,200 ÷ 30 = 40 G
⑥ 80 x 30 = 2400 I
⑦ 5,600 ÷ 70 = 80 R
⑧ 90 x 90 = 8100 U
⑨ 70 x 80 = 5600 H
⑩ 7,200 ÷ 80 = 90 Y
⑪ 10 x 10 = 100 S
⑫ 2,000 ÷ 40 = 50 E
⑬ 60 x 50 = 3000 A

W	H	Y		A	R	E		Y	O	U		S	U	C	H		A		N	E	I	G	H	–	S	A	Y	E	R	?
4	9	10		13	7	12		10	1	8		11	8	3	9		13		2	12	6	5	9		11	13	10	12	7		

Skill: Using place value to solve multiplication & division problems
CCSS: 4.NBT.A.2

NAME: _____ DATE: _____

What did the salmon say to his friend who swam upstream fastest?



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

LEGEND

U 306,057	Y 713,366	R 22,202	R 15,361	Y 88,002
N 940,723	E 420,910	S 360,507	O 52,071	E 90,505
H 700,009	F 7,137	I 690,010	V 2,020	
E 50,020	T 15,301	E 50,220	I 74,386	

Match each expanded form number to its numeric form:

① 10,000 + 5,000 + 300 + 60 + 1 15,361 R
② 300,000 + 60,000 + 500 + 7 360,507 S
③ 50,000 + 20 50,020 E
④ 70,000 + 4,000 + 300 + 80 + 6 74,386 I
⑤ 400,000 + 20,000 + 900 + 10 420,910 E
⑥ 300,000 + 6,000 + 50 + 7 306,057 U
⑦ 2,000 + 20 2,020 V
⑧ 90,000 + 500 + 5 90,505 E
⑨ 10,000 + 5,000 + 300 + 1 15,301 T
⑩ 80,000 + 8,000 + 2 88,002 Y
⑪ 600,000 + 90,000 + 10 690,010 I
⑫ 700,000 + 10,000 + 3,000 + 300 + 60 + 6 713,366 Y
⑬ 50,000 + 200 + 20 50,220 E
⑭ 700,000 + 9 700,009 H
⑮ 50,000 + 2,000 + 70 + 1 52,071
⑯ 7,000 + 100 + 30 + 7 7,137 F
⑰ 20,000 + 2,000 + 200 + 2 22,202 R
⑱ 900,000 + 40,000 + 700 + 20 + 3 940,723 N

Y	O	U	'	R	E		V	E	R	Y		E	–	F	I	S	H	–	I	E	N	T
10	15	6		17	3		7	13	1	12		5		16	11	2	14		4	8	18	9

Skill: Converting between expanded form & numeric form
CCSS: 4.NBT.A.2

NAME: _____ DATE: _____

What kind of button isn't really to be pushed?

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

LEGEND

Y 811,102	H 401,752	O 20,680	T 4,256	N 999,407
B 8,815	B 6,315	E 16,003	U 11,707	T 35,822
E 9,523	T 34,299	L 881,361	L 773,901	

Match each word form number to its numeric form:

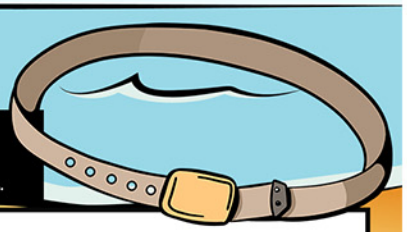
1. Four thousand, two hundred fifty-six **4,256 T**
2. Seven hundred seventy-three thousand, nine hundred one **773,901 L**
3. Nine thousand, five hundred twenty-three **9,523 E**
4. Twenty thousand, six hundred eighty **20,680 O**
5. Eight hundred eleven thousand, one hundred two **811,102 Y**
6. Six thousand, three hundred fifteen **6,315 B**
7. Nine hundred ninety-nine thousand, four hundred seven **999,407 N**
8. Sixteen thousand three **16,003 E**
9. Thirty-five thousand, eight hundred, twenty-two **35,822 T**
10. Eight hundred eighty-one thousand, three hundred sixty-one **881,361 L**
11. Four hundred one thousand, seven hundred fifty-two **401,752 H**
12. Eleven thousand, seven hundred seven **11,707 U**
13. Thirty-four thousand, two hundred ninety-nine **34,299 T**
14. Eight thousand, eight hundred fifteen **8,815 B**

T	H	E		B	E	L	L	Y		B	U	T	T	O	N
9	11	3		14	8	2	10	5		6	12	1	13	4	7

Skill: Converting between numeric number and word form
CCSS: 4.NBT.A.2

NAME: _____ DATE: _____

Why did the belt hide in shame after no one could wear him properly?



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 correct symbol to compare the numbers:

1. 3,050 **>** 3,005 — B < L > D =
2. 715,600 **<** 751,600 — P < R > S =
3. 15,660 **>** 15,606 — F < K > O =
4. 808,503 **<** 880,503 — D < B > L =
5. 717,000 **=** 710,000 + 7,000 — E < O > A =
6. 61,200 **>** 60,000 + 200 — L < B > N =
7. 20,000 + 5,000 + 70 **<** 25,700 — C < F > R =
8. 5,000 + 20 + 3 **=** 5,023 — C < G > N =
9. 2,000 + 700 + 7 **>** 2,077 — B < H > W =
10. 30,060 **<** 30,000 + 600 — R < E > O =
11. 9,013 **<** 9,000 + 30 + 1 — S < B > L =
12. 10,000 + 500 + 3 **<** 15,003 — T < W > S =
13. 90,000 + 400 **>** 90,040 — O < U > A =
14. 27,015 **=** 20,000 + 7,000 + 10 + 5 — U < S > E =

H	E		H	A	D		B	U	C	K	L	E	D		U	N	D	E	R
9	14		9	5	4		6	13	7	3	1	14	4		13	8	4	14	10

T	H	E		P	R	E	S	S	U	R	E
12	9	14		2	10	14	11	11	13	10	14

Skill: Comparing numbers using <, >, and =
CCSS: 4.OA.C.5

NAME: _____ DATE: _____

What did the baby's leg say when he learned how to crawl?

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

P 4,000,000	N 4,370,000	E 762,515,000	E 18,000,000
N 18,332,000	I 18,300,000	P 18,331,800	V 762,515,370
K 763,000,000	H 762,500,000	E 4,368,000	A 4,400,000
H 4,367,500	A 18,330,000	D 18,331,780	
E 762,520,000	A 4,367,510	I 762,515,400	

LEGEND

Round 4,367,512 to the given place:

① tens 4,367,510 A ② hundreds 4,367,500 H ③ thousands 4,368,000 E

④ ten thousands 4,370,000 N ⑤ hundred thousands 4,400,000 A ⑥ millions 4,000,000 P

Round 18,331,778 to the given place:

⑦ millions 18,000,000 E ⑧ hundred thousands 18,300,000 I ⑨ ten thousands 18,330,000 A

⑩ thousands 18,332,000 N ⑪ hundreds 18,331,800 P ⑫ tens 18,331,780 D

Round 762,515,372 to the given place:

⑬ thousands 762,515,000 E ⑭ millions 763,000,000 K ⑮ tens 762,515,370 V

⑯ hundred thousands 762,5000,000 H ⑰ hundreds 762,515,400 I ⑱ ten thousands 762,520,000

I	'V	E		H	A	D		A	N		E	P	I	P	H	A	–	K	N	E	E
8	15	3		16	5	12		1	10		18	6	17	11	2	9		14	4	7	13

Skill: Rounding to a given place
CCSS: 4.NBT.A.2

NAME: _____ DATE: _____

What did one fungus say to another when packaged?

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

O 130	O 1,510	T 417	S 78	E 128	E 6,040
U 1,120	M 726	H 8,999	E 866	H 2,033	H 1185
I 10,233	N 107	I 6,018	S 139	N 665	R 480
E 132	R 13,460	T 21	M 3,206	R 79	

LEGEND

① 27 + 51 = 78 S ② 33 + 99 = 132 E ③ 66 + 13 = 79 R ④ 12 + 9 = 21 T ⑤ 88 + 42 = 130 O

⑥ 91 + 37 = 128 E ⑦ 56 + 51 = 107 N

⑧ 219 + 507 = 726 M ⑨ 763 + 422 = 1185 H ⑩ 338 + 79 = 417 T ⑪ 567 + 98 = 665 N ⑫ 911 + 209 = 1120 U

⑬ 519 + 347 = 866 E ⑭ 58 + 422 = 480 R

⑮ 4317 + 5916 = 10,233 I ⑯ 7642 + 1357 = 8,999 H ⑰ 5298 + 8162 = 13,460 R ⑱ 1007 + 503 = 1,510 O ⑲ 6014 + 26 = 6,040 E

⑳ 5019 + 999 = 6,018 I ㉑ 28 + 3178 = 3,206 M

㉒ Christian collected 51 baseball cards. Joseph collected 88 baseball cards over a period of 2 years. How many baseball cards do Christian and Joseph have altogether?
139 S

㉓ On an airplane, Sadie traveled 1,516 miles on her first flight and 517 miles on her second flight. How many miles did she fly altogether?
2,033 H

T	H	E	R	E		I	S	N	'T		M	U	S	H	–	R	O	O	M		I	N		H	E	R	E
10	23	2	17	6		15	22	11	4		21	12	1	16		14	5	18	8		20	7		9	13	3	19

Skill: Adding up to four digit numbers
CCSS: 4.NBT.B.4

NAME: ______________________ DATE: ______________

Why were the trees tired of the lumberjack?

DIRECTIONS

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

LEGEND

S 623	X 3,812	E 4,254	A 3,219	E 517	T 22
T 175	N 285	M 2	O 48	Y 252	O 33
Q 7,159	D 6,349	O 8,289	U 2,315	A 53	
E 29	N 79	I 28	H 4	S 51	

① 56 − 8 = 48 O

② 41 − 12 = 29 E

③ 89 − 36 = 53 A

④ 98 − 19 = 79 N

⑤ 71 − 43 = 28 I

⑥ 32 − 10 = 22 T

⑦ 62 − 58 = 4 H

⑧ 339 − 54 = 285 N

⑨ 719 − 96 = 623 S

⑩ 105 − 103 = 2 M

⑪ 814 − 297 = 517 E

⑫ 492 − 317 = 175 T

⑬ 518 − 266 = 252 Y

⑭ 238 − 205 = 33 O

⑮ 7185 − 26 = 7,159 Q

⑯ 3718 − 499 = 3,219 A

⑰ 9001 − 2652 = 6,349 D

⑱ 6912 − 3100 = 3,812 X

⑲ 8447 − 4193 = 4,254 E

⑳ 4478 − 2163 = 2,315 U

㉑ 9342 − 1053 = 8,289 O

㉒ A TV at one store costs $1,399. The same TV costs $1,450 at another store. How much money can you save by buying the TV at the first store?
51 S

H	E		A	X	E	D		T	O	O		M	A	N	Y		Q	U	E	S	T	I	O	N	S
7	19		3	18	11	17		6	14	1		10	16	4	13		15	20	2	22	12	5	21	8	9

Skill: Subtracting up to four digit numbers
CCSS: 4.NBT.B.4

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NAME: ______________________ DATE: ______________

What has a face and can tell time, yet can't talk?

DIRECTIONS

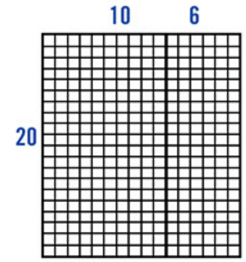
Solve the following problems and match your answers to the answers in the **Legend**. Then record the corresponding letter in the rectangles below to answer the riddle.
Note: The problem numbers match the numbered rectangles.

LEGEND

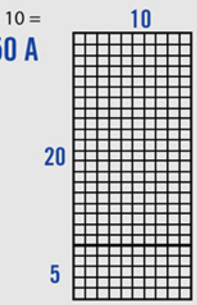
A 250	W 180	T 320	C 420
L 290	A 460	H 150	

Use the given array to solve each of the problems below:

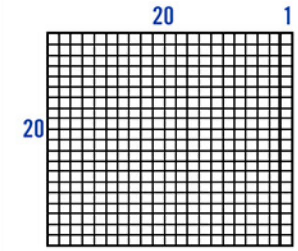
① 20 x 16 = 320 T



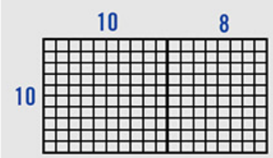
② 25 x 10 = 250 A



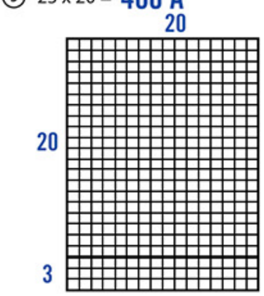
③ 20 x 21 = 420 C



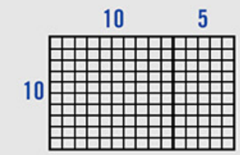
④ 10 x 18 = 180 W



⑤ 23 x 20 = 460 A



⑥ 10 x 15 = 150 H



A		W	A	T	C	H
2		4	5	1	3	6

Skill: Multiplying using arrays with factors of 10
CCSS: 4.NBT.B.5

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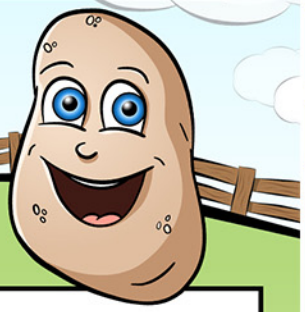
NAME: _____ DATE: _____

Which day do potatoes hate the most?

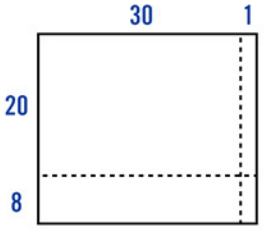


DIRECTIONS Solve the following problems and match your answers to the answers in the **Legend**. Then record the corresponding letter in the rectangles below to answer the riddle.
Note: The problem numbers match the numbered rectangles.

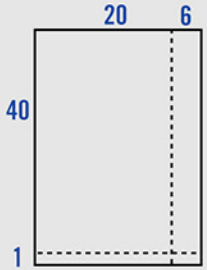
Y 702	R 868	Y 814	A 1,066
F 1,156	M 952	D 1,518	LEGEND

Use the given array to solve each of the problems below:

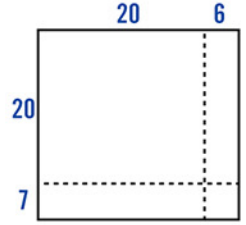
① 28 x 31 = **868 R**



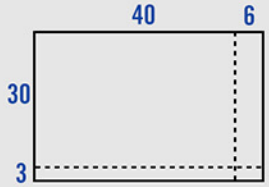
② 41 x 26 = **1066 A**



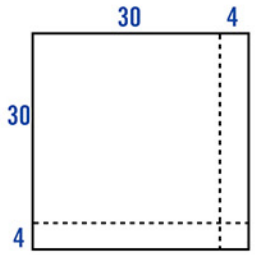
③ 27 x 26 = **702 Y**



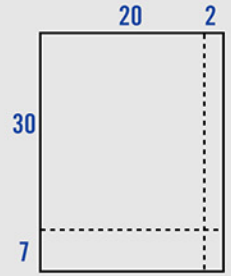
④ 33 x 46 = **1518 D**



⑤ 34 x 34 = **1156 F**



⑥ 37 x 22 = **814 Y**



F	R	Y	–	D	A	Y
5	1	6		4	2	3

Skill: Multiplying using arrays
CCSS: 4.NBT.B.5

NAME: _____ DATE: _____

Why did the royal thumb keep a pad of ink around?

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

C 333	A 296	M 906	N 17,806	S 297
P 3,150	R 8,736	T 414	G 306	F 4,585
I 18,042	E 18,519	W 1,827	H 20,764	LEGEND

① 37 x 8 = **296 A**	② 51 x 6 = **306 G**	③ 37 x 9 = **333 C**	④ 99 x 3 = **297 S**
⑤ 207 x 2 = **414 T**	⑥ 917 x 5 = **4585 F**	⑦ 450 x 7 = **3150 P**	⑧ 609 x 3 = **1827 W**
⑨ 1092 x 8 = **8736 R**	⑩ 5191 x 4 = **20,764 H**	⑪ 3007 x 6 = **18,042 I**	⑫ 8903 x 2 = **17,806 N**
⑬ 6173 x 3 = **18,519 E**			

H	E		W	A	S		T	H	E		F	I	N	G	E	R	–	P	R	I	N	C	E
10	13		8	1	4		5	10	13		6	11	12	2	13	9		7	9	11	12	3	13

Skill: Multiplying up to four digits by one digit
CCSS: 4.NBT.B.4

NAME: _____ DATE: _____

Why did the jacket keep a pen in his pocket?

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

L 20 R4	R 102 R6	D 200 R1	H 103 R2	K 30 R3
T 90 R6	G 50 R5	W 80 R1	A 50 R4	N 101 R2
O 140 R2	I 203 R2	S 90 R2	E 30 R1	

LEGEND

① 4⟌123 **30 R3 K**	② 5⟌702 **140 R2 O**	③ 8⟌641 **80 R1 W**	④ 6⟌305 **50 R5 G**
⑤ 6⟌620 **103 R2 H**	⑥ 8⟌164 **20 R4 L**	⑦ 5⟌254 **50 R4 A**	⑧ 6⟌608 **101 R2 N**
⑨ 3⟌611 **203 R2 I**	⑩ 8⟌726 **90 R6 T**	⑪ 2⟌401 **200 R1 D**	⑫ 7⟌720 **102 R6 R**
⑬ 4⟌121 **30 R1 E**	⑭ 5⟌452 **90 R2 S**		

H	E		L	I	K	E	D		T	O		D	R	A	W	–	S	T	R	I	N	G	S
5	13		6	9	1	13	11		10	2		11	12	7	3		14	10	12	9	8	4	14

Skill: Dividing by one digit with remainders
CCSS: 4.NBT.B.6

NAME: _____ DATE: _____

Why did the girl decide to learn sign language?

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

I 59 R5	Y 87	L 49 R3
D 67 R3	A 43 R5	T 170 R3
N 28 R4	H 119 R9	S 250 R2

LEGEND

① 6⟌263 40 3 **23 R5 A**	② 5⟌853 100 70 **170 R3 T**	③ 4⟌271 60 7 **67 R3 D**
④ 9⟌256 20 8 **28 R4 N**	⑤ 3⟌752 200 50 **250 R2 S**	⑥ 7⟌609 80 7 **87 Y**
⑦ 9⟌536 50 9 **59 R5 I**	⑧ 8⟌953 100 10 **119 R1 H**	

I	T	'	S		H	A	N	D	Y
7	2		5		8	1	4	3	6

Skill: Dividing with partial quotients
CCSS: 4.NBT.B.6

NAME: _____ DATE: _____

What did the baker say to the leader in the bread-eating contest?

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.

Determine which choice is the best estimate in each of the problems below:

1. 146 ÷ 72 =
   A 7 R 3
   P 2 C 9
2. 456 ÷ 53 =
   D 9 M 2
   L 5 T 6
3. 127 ÷ 33 =
   O 2 A 4
   S 5 G 3
4. 275 ÷ 70 =
   A 5 N 3
   B 2 E 4
5. 246 ÷ 44 =
   Y 6 C 7
   S 5 T 3
6. 160 ÷ 33 =
   P 4 R 6
   S 5 H 7
7. 55 ÷ 22 =
   E 4 Q 3
   O 1 U 2
8. 176 ÷ 61 =
   M 5 N 3
   J 4 K 2
9. 149 ÷ 31 =
   P 6 M 4
   R 5 V 3
10. 361 ÷ 41 =
    E 6 W 8
    R 7 T 9
11. 558 ÷ 68 =
    L 8 N 9
    S 5 T 7
12. 131 ÷ 63 =
    A 1 U 3
    O 2 I 4

D	O	N	'	T		S	T	O	P	–	Y	O	U	'	R	E		O	N		A		R	O	L	L
2	12	8		10		6	10	12	1		5	12	7		9	4		12	8		3		9	12	11	11

Skill: Estimating quotients
CCSS: 4.NBT.B.6

NAME: _____ DATE: _____

Why couldn't the motorcycle stand up on its own?

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

E 234 R1	D 116 R1	I 74 R6	O 69 R1	W 162 R3
T 104 R2	R 158 R3	T 51 R1	L 174 R3	A 66 R6
W 239 R2	S 131 R2	I 151 R1	T 101 R5	LEGEND

Divide. Leave your answer with a remainder:

1. 5 ⟌ 657 = 131 R2 S
2. 6 ⟌ 907 = 151 R1 I
3. 5 ⟌ 522 = 104 R 2 T
4. 5 ⟌ 813 = 162 R 3 W
5. 4 ⟌ 937 = 234 R 1 E
6. 9 ⟌ 672 = 74 R6 I
7. 7 ⟌ 813 = 116 R1 D
8. 8 ⟌ 534 = 66 R6 A
9. 3 ⟌ 719 = 239 R2 W
10. 9 ⟌ 622 = 69 R1 O
11. 8 ⟌ 409 = 51 R1 T
12. 7 ⟌ 712 = 101 R5 T
13. 6 ⟌ 951 = 158 R3 R

I	T		W	A	S		T	W	O		T	I	R	E	D
6	3		9	8	1		12	4	10		11	2	13	5	7

Skill: Dividing three-digit numbers by one-digit numbers with remainder
CCSS: 4.NBT.B.6

NAME: _____ DATE: _____

Why do skunks celebrate Valentine's Day?

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.

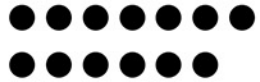
There are 15 shapes.
(Problems 1–2)

1. How many groups of 4 can you make?
   A 2 **C 3** F 4
2. How many remain?
   R 1 B 2 **H 3**

There are 18 shapes.
(Problems 3–4)

3. How many groups of 5 can you make?
   Y 3 D 4 M 5
4. How many remain?
   A 2 **I 3** E 4

There are 13 shapes.
(Problems 5–6)



5. How many groups of 7 can you make?
   A 1 O 2 E 3
6. How many remain?
   R 5 **L 6** P 7

There are 17 shapes.
(Problems 7–8)

7. How many groups of 5 can you make?
   M 2 **R 3** P 4
8. How many remain?
   S 2 A 3 E 4

There are 15 shapes.
(Problems 9–10)

9. How many groups of 2 can you make?
   N 5 O 6 **M 7**
10. How many remain?
    N 1 B 2 R 3

There are 20 shapes.
(Problems 11–12)

11. How many groups of 6 can you make?
    T 3 C 4 F 5
12. How many remain?
    O 1 **E 2** U 3

T	H	E	Y	'	R	E		S	C	E	N	T	–	I	M	E	N	T	A	L
11	2	12	3		7	12		8	1	12	10	11		4	9	12	10	11	5	6

Skill: Dividing using visual representation
CCSS: 4.NBT.B.6

NAME: _____ DATE: _____

What was the pessimist's blood type?

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

LEGEND

G 9	B 107	I 26	N 44	V 24
M 32	A 5	T 1	E 14	

1. Julie ordered 156 pens to distribute within her class. If she gave each student 6 pens, how many students does she have in her class?
   26 I students
2. A florist is providing vases of flowers for a banquet. She has 396 flowers. If each vase holds 9 flowers, how many vases will be at the banquet?
   44 N vases
3. A school purchased 54 new computers. If each classroom gets six new computers, how many classrooms are there?
   9 G classrooms
4. A piece of ribbon is 120 cm long. If the ribbon is cut into five equal pieces, how long will each piece of the ribbon be?
   24 V cm
5. Finn bought 215 juice boxes. He drinks two juice boxes a day. After how many days will he no longer be able to drink two juice boxes?
   107 B days
6. Jen's little sister, Sonia, likes to play with toy animals. Sonia has four friends coming over. If she evenly distributes 41 toy animals among herself and her friends, how many toy animals will be left over?
   1 T toy animal(s)
7. A hotel ordered 515 lamps. If each room gets 6 lamps, how many lamps will be leftover once they are distributed among the hotel rooms?
   5 A lamps
8. Adley had 99 lollipops, which she distributed evenly among 7 friends. She took the remainder home. How many lollipops did each of her friends get?
   14 E lollipops

B	–	N	E	G	A	T	I	V	E
5		2	8	3	7	6	1	4	8

Skill: Division word problems with and without remainders
CCSS: 4.NBT.B.6

YOU'RE AWESOME!

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