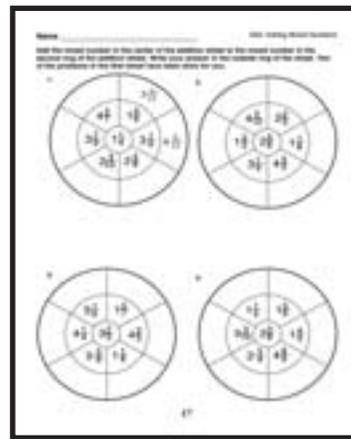


# Fifth Grade Basic Skills Math Fun Activities



**Basic math skills activities  
necessary for developing the skills  
students need to succeed!**

Written by: Kelley Wingate Levy

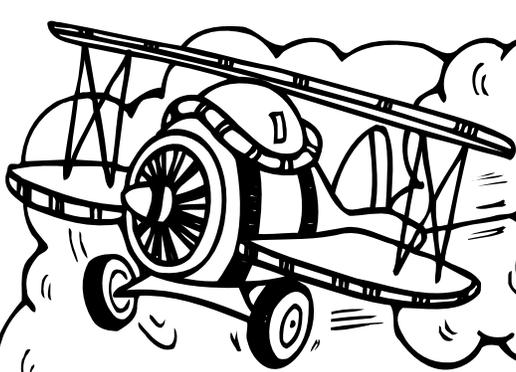
**Look for all of Teacher's Friend's  
Basic Skills Books  
at your local educational retailer!**

Name \_\_\_\_\_

Date \_\_\_\_\_

## Student Page Completion Chart

Page No.	Skill	Passed	Date
3	Two, Three and Four Digit Addition	<input type="checkbox"/>	
4	Subtracting Two and Three Digit Numbers	<input type="checkbox"/>	
5	Multiplying One, Two and Three Digit Numbers	<input type="checkbox"/>	
6	Division with No Remainders	<input type="checkbox"/>	
7	Division with Remainders	<input type="checkbox"/>	
8	Addition, Subtraction, Multiplication and Division	<input type="checkbox"/>	
9	Order of Operations	<input type="checkbox"/>	
10	Changing Fractions to Simplest Form	<input type="checkbox"/>	
11	Changing Fractions to Simplest Form	<input type="checkbox"/>	
12	Finding Equivalent Fractions	<input type="checkbox"/>	
13	Finding Fractions and Mixed Numbers	<input type="checkbox"/>	
14	Comparing Fractions	<input type="checkbox"/>	
15	Adding Fractions with Different Denominators	<input type="checkbox"/>	
16	Adding Fractions and Mixed Numbers	<input type="checkbox"/>	
17	Adding Mixed Numbers	<input type="checkbox"/>	
18	Subtracting Fractions	<input type="checkbox"/>	
19	Multiplying Fractions	<input type="checkbox"/>	
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22	Graphs-Venn Diagrams	<input type="checkbox"/>	
23	Graphs-Bar Charts	<input type="checkbox"/>	
24	Graphs-Pie Charts	<input type="checkbox"/>	
25	Probability	<input type="checkbox"/>	
26	Measuring and Drawing Angles	<input type="checkbox"/>	
27	Naming Angles	<input type="checkbox"/>	
28	Polygons	<input type="checkbox"/>	
29	Symmetry	<input type="checkbox"/>	
30	Geometric Movements in a Plane	<input type="checkbox"/>	
31	Geometric Movements in a Plane	<input type="checkbox"/>	
32	Measurements—Lengths	<input type="checkbox"/>	
33	Measurements—Distance	<input type="checkbox"/>	
34	Measurements—Weights	<input type="checkbox"/>	
35	Beginning Algebra-Solving Equations	<input type="checkbox"/>	
36	Beginning Algebra-Algebraic Expressions	<input type="checkbox"/>	
37	Beginning Algebra-Function Tables	<input type="checkbox"/>	
38	Beginning Algebra-Variables	<input type="checkbox"/>	
39	Finding Coordinates	<input type="checkbox"/>	
40	Graphing Coordinates	<input type="checkbox"/>	
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Name \_\_\_\_\_

Skill: Two, Three and Four Digit Addition

Add the numbers. Use the letters beside your answers to fill in the blanks below and find the answer to the riddle.

$$\begin{array}{r} 1. \quad 1,387 \\ + 2,062 \\ \hline \end{array} = i$$

$$\begin{array}{r} 2. \quad 4,761 \\ + 3,022 \\ \hline \end{array} = s$$

$$\begin{array}{r} 3. \quad 5,067 \\ + 1,988 \\ \hline \end{array} = a$$

$$\begin{array}{r} 4. \quad 6,237 \\ + 2,952 \\ \hline \end{array} = c$$

$$\begin{array}{r} 5. \quad 2,786 \\ + 1,375 \\ \hline \end{array} = p$$

$$\begin{array}{r} 6. \quad 3,822 \\ + 4,256 \\ \hline \end{array} = m$$

$$\begin{array}{r} 7. \quad 1,109 \\ + 3,472 \\ \hline \end{array} = t$$

$$\begin{array}{r} 8. \quad 7,085 \\ + 1,743 \\ \hline \end{array} = n$$

$$\begin{array}{r} 9. \quad 6,565 \\ + 3,042 \\ \hline \end{array} = o$$

$$\begin{array}{r} 10. \quad 2,917 \\ + 1,629 \\ \hline \end{array} = g$$

$$\begin{array}{r} 11. \quad 2,781 \\ + 1,678 \\ \hline \end{array} = h$$

$$\begin{array}{r} 12. \quad 3,347 \\ + 1,497 \\ \hline \end{array} = x$$

$$\begin{array}{r} 13. \quad 4,560 \\ + 2,485 \\ \hline \end{array} = r$$

$$\begin{array}{r} 14. \quad 4,842 \\ + 3,734 \\ \hline \end{array} = e$$

$$\begin{array}{r} 15. \quad 5,091 \\ + 3,374 \\ \hline \end{array} = w$$

Why did Mary go outside with her purse open?



7,783   4,459   8,576

8,465   7,055   7,783

8,576   4,844   4,161   8,576   9,189   4,581   3,449   8,828   4,546

7,783   9,607   8,078   8,576   9,189   4,459   7,055   8,828   4,546   8,576

3,449   8,828   4,581   4,459   8,576

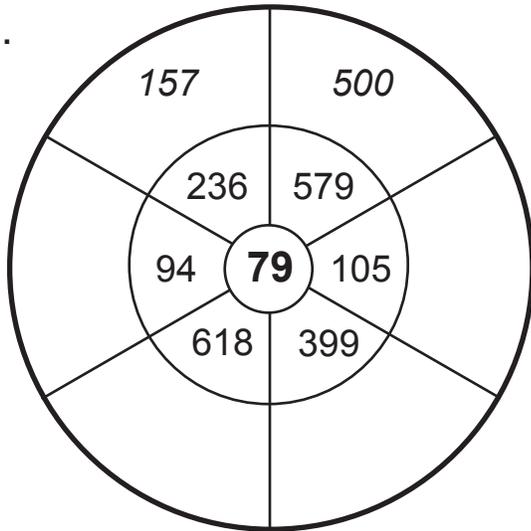
8,465   8,576   7,055   4,581   4,459   8,576   7,045

Name \_\_\_\_\_

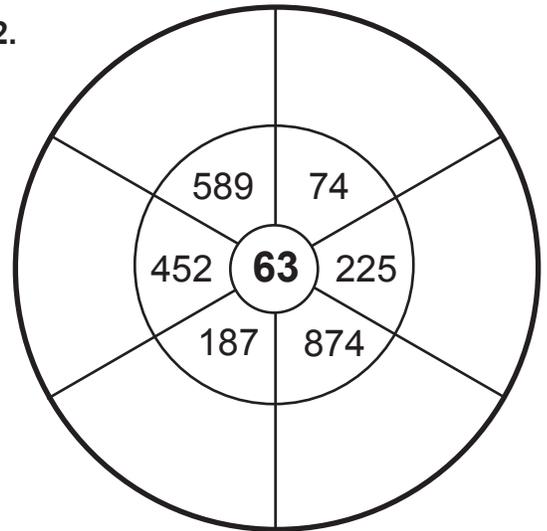
Skill: Subtracting Two and Three Digit Numbers

Subtract the number in the center of the subtraction wheel from the number in the second ring of the subtraction wheel. Write your answer in the outside ring of the wheel. Two of the problems in the first wheel have been done for you.

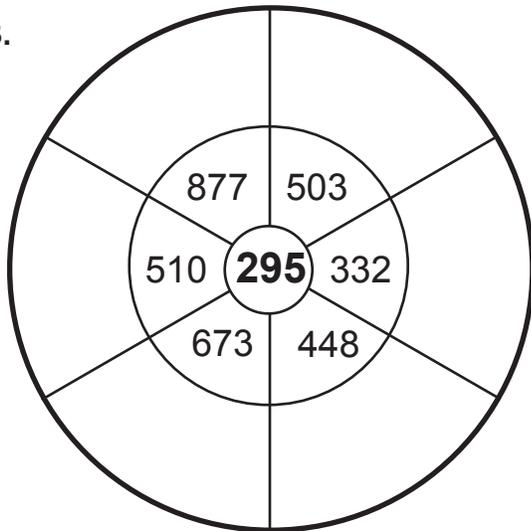
1.



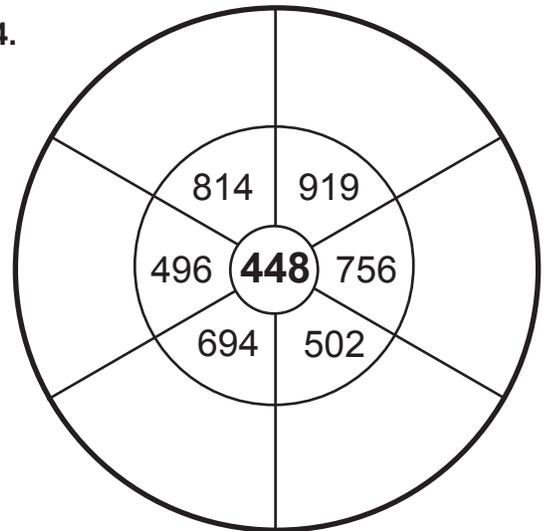
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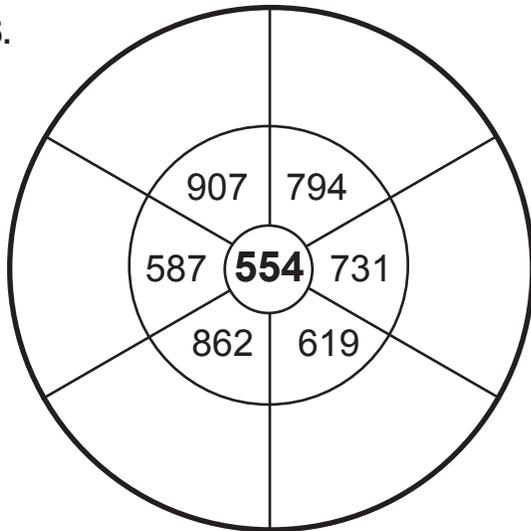
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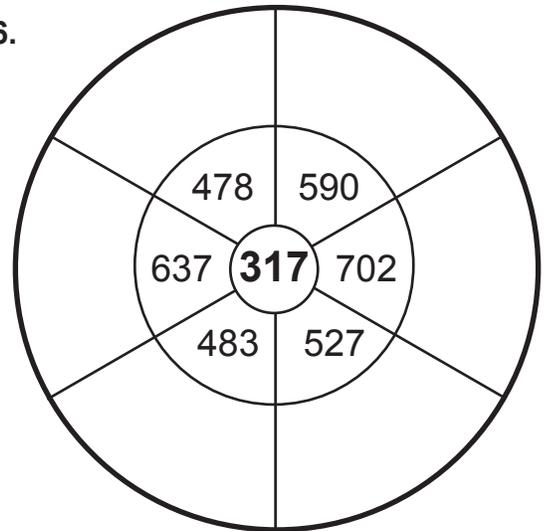
4.



5.



6.



Name \_\_\_\_\_

Skill: Multiplying One, Two and Three Digit Numbers

Multiply the numbers. The correct answer to the multiplication problem will give you the answer to the trivia question.

1. What color is the blood of an octopus?

$$\begin{array}{r} 478 \\ \times 6 \\ \hline \end{array}$$

- a. 2,868 = blue
- b. 1,452 = green
- c. 3,506 = red
- d. 3,506 = yellow

2. What was George Washington's first real job?

$$\begin{array}{r} 197 \\ \times 32 \\ \hline \end{array}$$

- a. 5,102 = lawyer
- b. 4,877 = gardener
- c. 6,304 = surveyor
- d. 6,504 = store clerk

3. What is the smallest piece of information that a computer can process?

$$\begin{array}{r} 785 \\ \times 46 \\ \hline \end{array}$$

- a. 36,100 = byte
- b. 46,100 = hertz
- c. 42,985 = ram
- d. 36,110 = bit

4. What kind of lands are the dark patches on the moon?

$$\begin{array}{r} 367 \\ \times 52 \\ \hline \end{array}$$

- a. 19,480 = mountains
- b. 20,560 = lakes
- c. 19,084 = flat lands
- d. 18,760 = glaciers

5. What famous document begins with the words, "We The People of the United States"?

$$\begin{array}{r} 369 \\ \times 174 \\ \hline \end{array}$$

- a. 64,206 = U.S. Constitution
- b. 46,512 = I.R.S. Tax Code
- c. 56,206 = The Bill of Rights
- d. 37,166 = The Declaration of Independence

6. Where was paper money first printed?

$$\begin{array}{r} 505 \\ \times 298 \\ \hline \end{array}$$

- a. 148,670 = Greece
- b. 150,490 = China
- c. 142,568 = Rome
- d. 254,688 = United States

7. Which of the following animals is also known as a sea cow?

$$\begin{array}{r} 619 \\ \times 472 \\ \hline \end{array}$$

- a. 254,368 = porpoise
- b. 287,455 = sting ray
- c. 350,147 = blue whale
- d. 292,168 = manatee

8. About how old do scientists estimate the Earth is?

$$\begin{array}{r} 531 \\ \times 403 \\ \hline \end{array}$$

- a. 148,670 = 40 billion years
- b. 213,993 = 4 billion years
- c. 142,568 = 4 million years
- d. 254,688 = 40 million years

Name \_\_\_\_\_

Skill: Division with No Remainders

In each box, shade in the row of division problems that has all of the same answers.

1.

$15 \overline{)660}$	$13 \overline{)533}$	$9 \overline{)405}$
$16 \overline{)608}$	$12 \overline{)540}$	$19 \overline{)665}$
$18 \overline{)810}$	$22 \overline{)704}$	$16 \overline{)688}$

2.

$26 \overline{)962}$	$15 \overline{)495}$	$38 \overline{)912}$
$14 \overline{)518}$	$36 \overline{)432}$	$31 \overline{)465}$
$25 \overline{)925}$	$18 \overline{)828}$	$28 \overline{)784}$

3.

$19 \overline{)456}$	$21 \overline{)588}$	$34 \overline{)884}$
$41 \overline{)492}$	$11 \overline{)682}$	$38 \overline{)988}$
$38 \overline{)874}$	$78 \overline{)702}$	$29 \overline{)754}$

4.

$13 \overline{)546}$	$10 \overline{)470}$	$31 \overline{)837}$
$41 \overline{)738}$	$22 \overline{)924}$	$16 \overline{)512}$
$16 \overline{)592}$	$16 \overline{)720}$	$18 \overline{)756}$

5.

$22 \overline{)594}$	$13 \overline{)832}$	$12 \overline{)744}$
$18 \overline{)612}$	$9 \overline{)576}$	$7 \overline{)196}$
$26 \overline{)962}$	$15 \overline{)960}$	$21 \overline{)672}$

6.

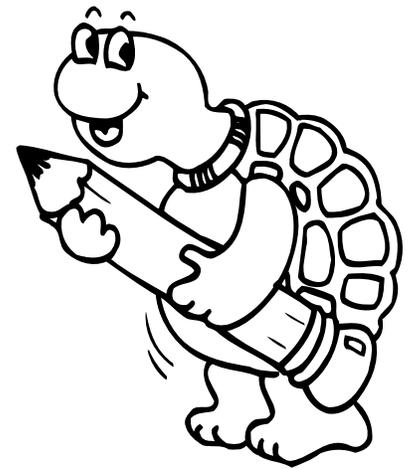
$8 \overline{)256}$	$12 \overline{)972}$	$15 \overline{)705}$
$29 \overline{)342}$	$9 \overline{)657}$	$11 \overline{)451}$
$13 \overline{)936}$	$8 \overline{)576}$	$4 \overline{)288}$

Name \_\_\_\_\_

Skill: Division with Remainders

Each of the division problems below has a remainder. Match the remainder from each division problem along with the letter beside your answer with the numbers underneath the blanks to find the answer to the riddle.

- |                              |                              |                             |                             |
|------------------------------|------------------------------|-----------------------------|-----------------------------|
| 1. $6 \overline{)652}$ = h   | 2. $2 \overline{)615}$ = a   | 3. $7 \overline{)110}$ = r  | 4. $8 \overline{)775}$ = o  |
| 5. $15 \overline{)254}$ = i  | 6. $21 \overline{)535}$ = e  | 7. $19 \overline{)259}$ = d | 8. $5 \overline{)457}$ = s  |
| 9. $12 \overline{)561}$ = t  | 10. $16 \overline{)445}$ = p | 11. $9 \overline{)996}$ = n | 12. $5 \overline{)578}$ = g |
| 13. $12 \overline{)155}$ = c | 14. $11 \overline{)481}$ = l |                             |                             |



Why did the witch have extra homework?

- |                    |                    |                    |                    |                   |                    |                    |                    |
|--------------------|--------------------|--------------------|--------------------|-------------------|--------------------|--------------------|--------------------|
| $\frac{\quad}{2}$  | $\frac{\quad}{4}$  | $\frac{\quad}{10}$ | $\frac{\quad}{4}$  | $\frac{\quad}{1}$ | $\frac{\quad}{12}$ | $\frac{\quad}{9}$  | $\frac{\quad}{7}$  |
| $\frac{\quad}{13}$ | $\frac{\quad}{5}$  | $\frac{\quad}{1}$  | $\frac{\quad}{11}$ | $\frac{\quad}{9}$ | $\frac{\quad}{14}$ | $\frac{\quad}{11}$ | $\frac{\quad}{10}$ |
| $\frac{\quad}{2}$  | $\frac{\quad}{13}$ | $\frac{\quad}{10}$ | $\frac{\quad}{8}$  | $\frac{\quad}{8}$ | $\frac{\quad}{14}$ | $\frac{\quad}{6}$  | $\frac{\quad}{3}$  |

Name \_\_\_\_\_

Skill: Addition, Subtraction, Multiplication,  
Division

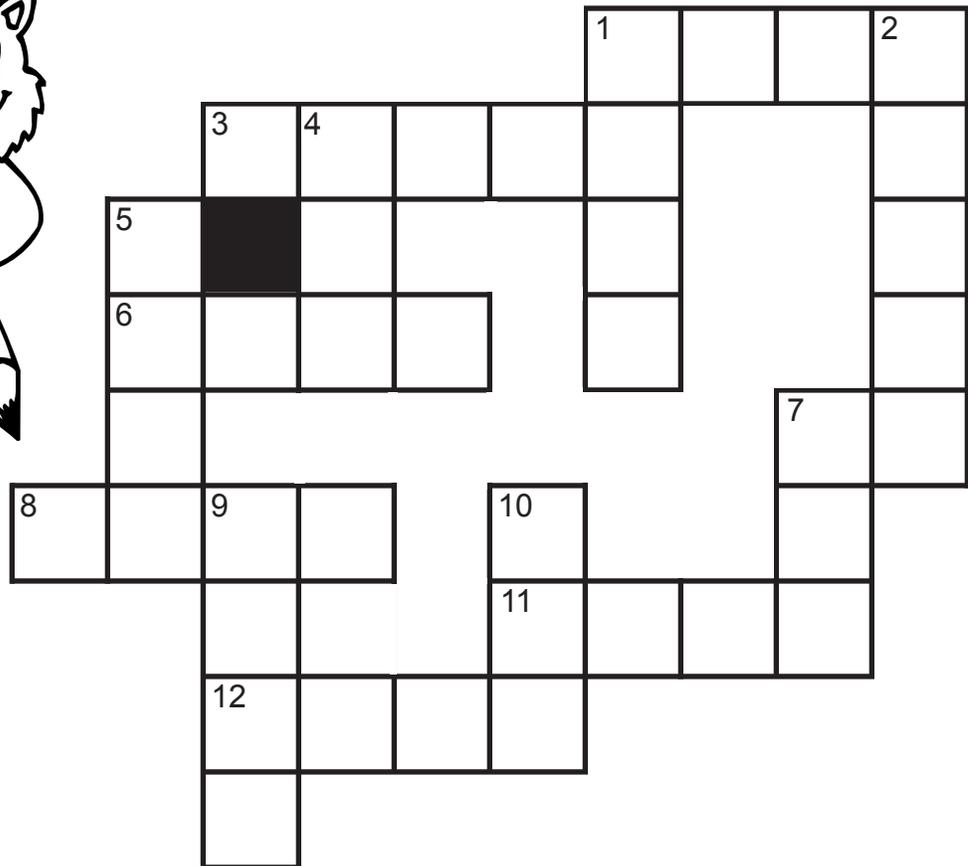
Add, subtract, multiply or divide to fill in the cross-number puzzle.

**Across**

- 1.  $2,794 + 3,408 =$
- 3.  $321 \times 38 =$
- 6.  $134 \times 52 =$
- 7.  $420 \div 21 =$
- 8.  $75 \times 17 =$
- 11.  $1,806 \times 4 =$
- 12.  $8,801 - 1,859 =$

**Down**

- 1.  $1,254 + 5,589 =$
- 2.  $215 \times 98 =$
- 4.  $4,248 \div 18 =$
- 5.  $47 \times 36 =$
- 7.  $156 + 128 =$
- 9.  $9,027 - 1,258 =$
- 10.  $109 + 463 =$



Name \_\_\_\_\_

Skill: Order of Operations

When solving an equation with more than one type of operation, it is important to perform the operations in the correct order.

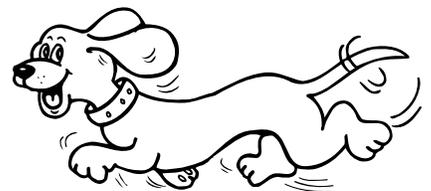
**Example:**  $12 + 15 \div (3 + 2) - 3 \times 2 =$

1. Do the operations in parentheses first.  $12 + 15 \div (3 + 2) - 3 \times 2 = 12 + 15 \div 5 - 3 \times 2$
2. Multiply and divide from left to right.  $12 + (15 \div 5) - (3 \times 2) = 12 + 3 - 6$
3. Add and subtract from left to right.  $12 + 3 - 6 = 9$

Solve the following equations using the correct order of operations. Match your answer and the letter beside your answer to the number below the blanks. Write the letters in the blanks to solve the riddle.

- |   |            |   |            |
|---|------------|---|------------|
| 1. $(2 \times 4) \div 2 \times 7 + 5 =$ | <b>= h</b> | 2. $14 + 6 \times 4 - 3 =$                | <b>= w</b> |
| 3. $72 \div 9 - 6 + 18 \div 9 =$        | <b>= g</b> | 4. $15 + (7 + 2) \div 3 + 6 \times 3 =$   | <b>= n</b> |
| 5. $(3 \times 8) - 6 + (24 \div 6) =$   | <b>= a</b> | 6. $(81 \div 9) \div (3 \times 1) + 10 =$ | <b>= e</b> |
| 7. $(35 + 13) \div 8 =$                 | <b>= d</b> | 8. $3 + (28 - 3) \div 5 + (2 \times 4) =$ | <b>= o</b> |
| 9. $(9 \times 5) \div (3 + 6) =$        | <b>= l</b> | 10. $(64 \div 8) + (3 \times 4) + 8 =$    | <b>= y</b> |
| 11. $8 \times 2 \div 2 + 24 =$          | <b>= i</b> | 12. $16 \div 4 + 7 + 2 \times 5 =$        | <b>= t</b> |

Why did the cowboy buy a dachshund?

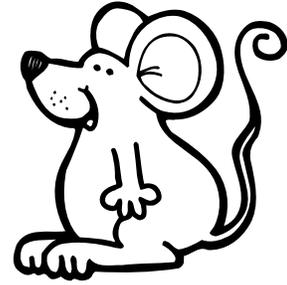


33	13	35	22	36	21	13	6			
21	16	4	13	21	22	5	16	36	4	
5	32	21	21	5	13	6	16	4	4	28

Name \_\_\_\_\_

Skill: Changing Fractions to Simplest Form

Solve the riddle.



What do you call cheese that is not yours?

To solve the riddle:

Each box below has a fraction and a letter. Reduce the fraction in each box to simplest form. If the fraction, when changed to simplest form, matches one of the fractions listed in the fraction box, cross out that box. If it does not match a fraction listed in the fraction box, circle the letter. As you circle letters, write them in the blanks. When you are finished, you will have the answer to the riddle.

Fraction Box								
$\frac{1}{3}$	$\frac{2}{7}$	$\frac{7}{8}$	$\frac{5}{6}$	$\frac{8}{13}$	$\frac{7}{10}$	$\frac{3}{4}$	$\frac{6}{7}$	$\frac{3}{5}$

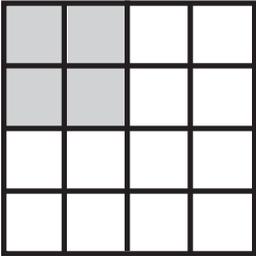
$\frac{3}{9}$ N	$\frac{6}{21}$ S	$\frac{15}{20}$ P	$\frac{15}{18}$ A	$\frac{6}{9}$ N	$\frac{28}{32}$ R	$\frac{36}{42}$ T	$\frac{4}{10}$ A
$\frac{6}{20}$ C	$\frac{14}{20}$ E	$\frac{6}{27}$ H	$\frac{10}{35}$ A	$\frac{24}{39}$ L	$\frac{4}{16}$ O	$\frac{10}{12}$ O	$\frac{9}{24}$ C
$\frac{10}{14}$ H	$\frac{18}{21}$ I	$\frac{8}{16}$ E	$\frac{16}{24}$ E	$\frac{14}{16}$ S	$\frac{15}{36}$ S	$\frac{4}{12}$ E	$\frac{4}{18}$ E

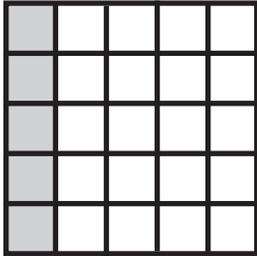
\_\_\_\_\_

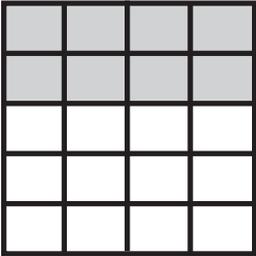
Name \_\_\_\_\_

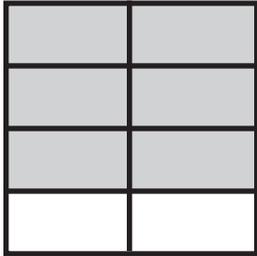
Skill: Changing Fractions to Simplest Form

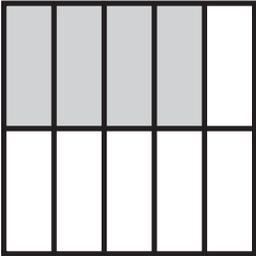
For each shape below, fill in the number of total parts of the shape and the number of parts shaded in. Reduce the fraction to simplest form. The first one has been done for you.

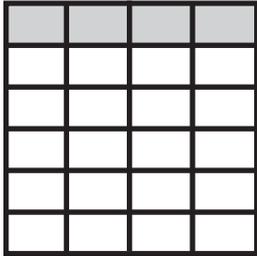
1.  parts shaded  $\frac{4}{16} = \frac{1}{4}$

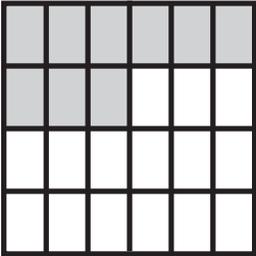
2.  parts shaded  $\frac{\quad}{\quad} = \frac{\quad}{\quad}$

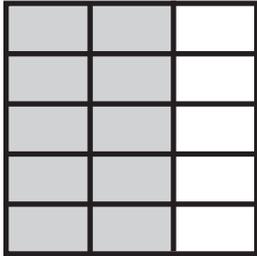
3.  parts shaded  $\frac{\quad}{\quad} = \frac{\quad}{\quad}$

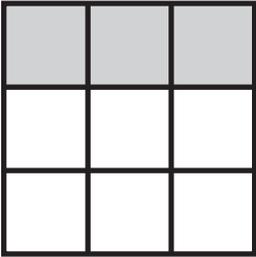
4.  parts shaded  $\frac{\quad}{\quad} = \frac{\quad}{\quad}$

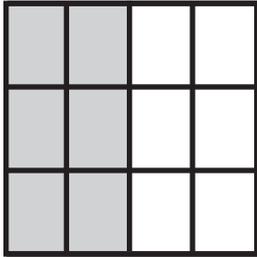
5.  parts shaded  $\frac{\quad}{\quad} = \frac{\quad}{\quad}$

6.  parts shaded  $\frac{\quad}{\quad} = \frac{\quad}{\quad}$

7.  parts shaded  $\frac{\quad}{\quad} = \frac{\quad}{\quad}$

8.  parts shaded  $\frac{\quad}{\quad} = \frac{\quad}{\quad}$

9.  parts shaded  $\frac{\quad}{\quad} = \frac{\quad}{\quad}$

10.  parts shaded  $\frac{\quad}{\quad} = \frac{\quad}{\quad}$

Name \_\_\_\_\_

Skill: Finding Equivalent Fractions

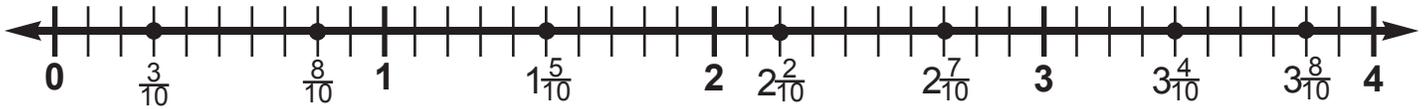
Cut out all of the squares below along the lines. Rearrange all of the squares so that each touching edge has a fraction that is equal to the fraction on the other touching edge.

$\frac{10}{18}$ $\frac{32}{36}$ $\frac{3}{4}$ $\frac{1}{8}$	$\frac{4}{6}$ $\frac{1}{10}$ $\frac{6}{18}$ $\frac{1}{2}$	$\frac{20}{25}$ $\frac{12}{16}$ $\frac{4}{5}$	$\frac{3}{9}$ $\frac{4}{5}$
$\frac{8}{12}$ $\frac{5}{6}$ $\frac{4}{16}$ $\frac{3}{8}$ $\frac{1}{5}$	$\frac{4}{12}$ $\frac{15}{30}$ $\frac{5}{6}$ $\frac{25}{60}$ $\frac{2}{5}$	$\frac{6}{8}$ $\frac{1}{3}$	$\frac{15}{30}$ $\frac{3}{24}$ $\frac{5}{6}$ $\frac{25}{60}$ $\frac{2}{5}$
$\frac{3}{30}$ $\frac{7}{10}$ $\frac{20}{24}$ $\frac{5}{9}$ $\frac{4}{5}$	$\frac{20}{25}$ $\frac{12}{32}$ $\frac{1}{3}$ $\frac{15}{18}$ $\frac{1}{3}$	$\frac{3}{24}$ $\frac{1}{3}$ $\frac{15}{18}$ $\frac{3}{4}$	$\frac{15}{18}$ $\frac{3}{4}$
$\frac{21}{30}$ $\frac{3}{15}$ $\frac{5}{12}$ $\frac{15}{35}$ $\frac{2}{3}$ $\frac{8}{9}$	$\frac{5}{7}$ $\frac{2}{3}$ $\frac{6}{15}$ $\frac{1}{4}$	$\frac{6}{15}$ $\frac{1}{4}$	$\frac{3}{7}$ $\frac{2}{3}$

Name \_\_\_\_\_

Skill: Finding Fractions and Mixed Numbers

Use the number line to answer the questions.



- List three fractions or mixed numbers listed on the number line between 0 and 2.  
\_\_\_\_\_
- List all of the fractions or mixed numbers listed on the number line that are not in simplest form. Give the equivalents of these fractions in simplest form.  
\_\_\_\_\_
- What is the largest mixed number listed on the number line? \_\_\_\_\_
- What is the smallest fraction listed on the number line? \_\_\_\_\_
- List four mixed numbers listed on the number line between 2 and 4.  
\_\_\_\_\_

Use the number line below to plot the following fractions or mixed numbers. Draw a dot and label where the fractions or mixed numbers are located.

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

C.  $1\frac{3}{10}$

E.  $2\frac{1}{2}$

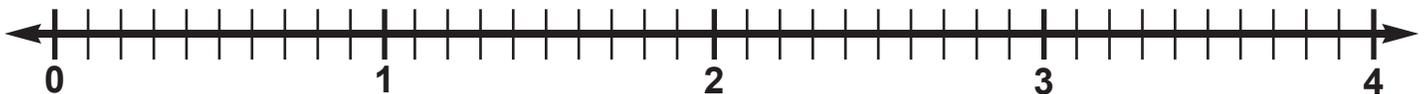
G.  $3\frac{2}{5}$

B.  $\frac{4}{5}$

D.  $1\frac{4}{5}$

F.  $2\frac{9}{10}$

H.  $3\frac{3}{5}$



Name \_\_\_\_\_

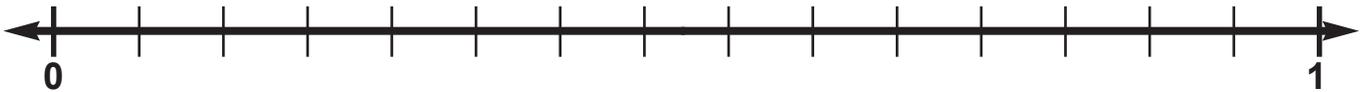
Skill: Comparing Fractions

Rewrite the given fractions in the correct order on the line. Plot each fraction on the number line.

1.  $\frac{1}{2}, \frac{7}{10}, \frac{2}{5}, \frac{1}{5}, \frac{9}{10}, \frac{1}{10}$  \_\_\_\_\_



2.  $\frac{4}{5}, \frac{2}{3}, \frac{1}{5}, \frac{1}{15}, \frac{1}{3}, \frac{3}{5}$  \_\_\_\_\_



3.  $\frac{1}{2}, \frac{3}{8}, \frac{3}{4}, \frac{1}{8}, \frac{1}{4}, \frac{7}{8}$  \_\_\_\_\_



4.  $\frac{5}{12}, \frac{3}{8}, \frac{7}{8}, \frac{3}{4}, \frac{2}{3}, \frac{7}{12}$  \_\_\_\_\_



5.  $1\frac{4}{5}, \frac{3}{10}, \frac{1}{5}, 1\frac{2}{5}, \frac{1}{2}, 1\frac{1}{2}$  \_\_\_\_\_



Name \_\_\_\_\_

Skill: Adding Fractions with Different Denominators

Add the fractions. Match your answers with the number below the blanks in the answer to the riddle. Write the letter beside your answer in the blank to get the answer to the riddle.

1.  $\frac{5}{14} + \frac{1}{2} =$  =i

2.  $\frac{1}{4} + \frac{3}{8} =$  =s

3.  $\frac{1}{4} + \frac{1}{5} =$  =h

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

5.  $\frac{1}{10} + \frac{1}{2} =$  =u

6.  $\frac{1}{2} + \frac{3}{10} =$  =d

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

8.  $\frac{5}{12} + \frac{1}{4} =$  =a

9.  $\frac{2}{5} + \frac{5}{10} =$  =n

10.  $\frac{1}{4} + \frac{1}{2} =$  =o

11.  $\frac{1}{12} + \frac{3}{4} =$  =p

12.  $\frac{2}{3} + \frac{1}{5} =$  =m

13.  $\frac{1}{10} + \frac{3}{5} =$  =l

How did the skunk call his family?

$\frac{9}{20} \quad \frac{13}{14} \quad \frac{3}{5} \quad \frac{5}{8} \quad \frac{13}{14} \quad \frac{4}{5} \quad \frac{9}{20} \quad \frac{6}{7} \quad \frac{5}{8}$

$\frac{5}{8} \quad \frac{13}{15} \quad \frac{13}{14} \quad \frac{7}{10} \quad \frac{7}{10} - \frac{3}{5} \quad \frac{7}{10} \quad \frac{2}{3} \quad \frac{8}{9}$

$\frac{5}{6} \quad \frac{9}{20} \quad \frac{3}{4} \quad \frac{9}{10} \quad \frac{13}{14}$

Name \_\_\_\_\_

Skill: Adding Fractions and Mixed Numbers

Solve the word problems.

1. Everyday Sally rides her bike to get where she wants to go. Today she rode  $3\frac{3}{4}$  miles to get to school. Then she rode  $1\frac{5}{8}$  miles to get to the library. After that, she rode  $4\frac{1}{3}$  miles to get back home. How many miles did she ride in all?

*Show your work here.*

---

2. For Paul to make his famous double chocolate cake, he uses  $1\frac{1}{2}$  cups of water,  $2\frac{1}{4}$  cups of milk and  $\frac{5}{8}$  of a cup of oil. How many cups of these liquid ingredients does he use in all?

*Show your work here.*

---

3. Tonya bought three pizzas for herself and her friends. Sharon ate  $\frac{5}{6}$  of a pizza, Sondra ate  $\frac{2}{3}$  of a pizza, and Tonya ate  $\frac{3}{8}$  of a pizza. How much of the pizzas did the girls eat all together?

*Show your work here.*

---

4. Mark decided to help his father do some yard work. He spent  $1\frac{1}{3}$  hours cutting grass,  $1\frac{1}{4}$  hours raking leaves, and  $\frac{5}{8}$  of an hour putting away the yard tools. How much time did he spend all together helping his father?

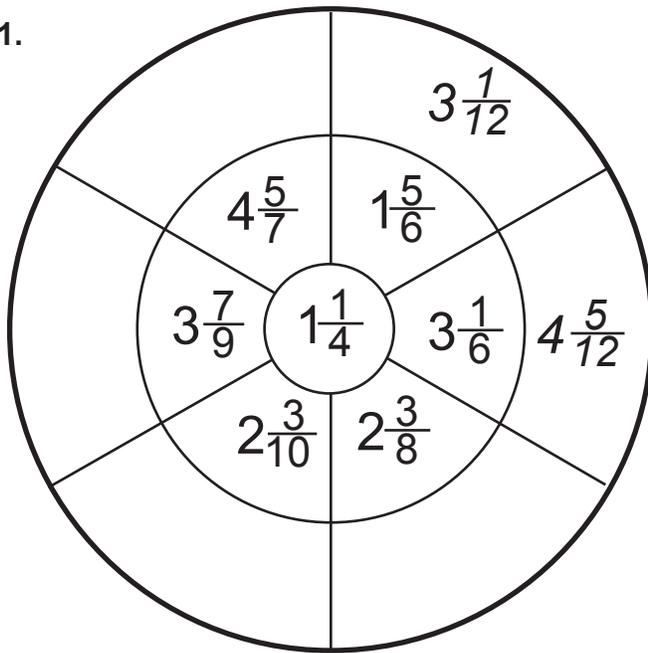
*Show your work here.*

Name \_\_\_\_\_

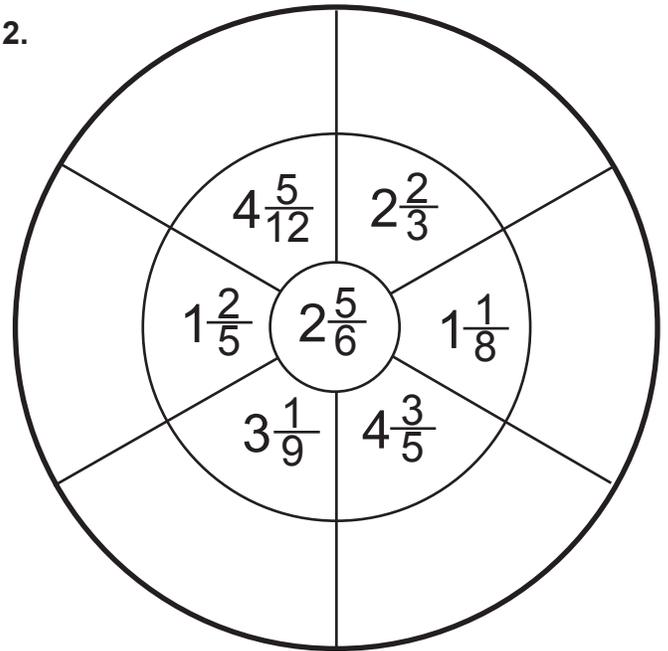
Skill: Adding Mixed Numbers

Add the mixed number in the center of the addition wheel to the mixed number in the second ring of the addition wheel. Write your answer in the outside ring of the wheel. Two of the problems in the first wheel have been done for you.

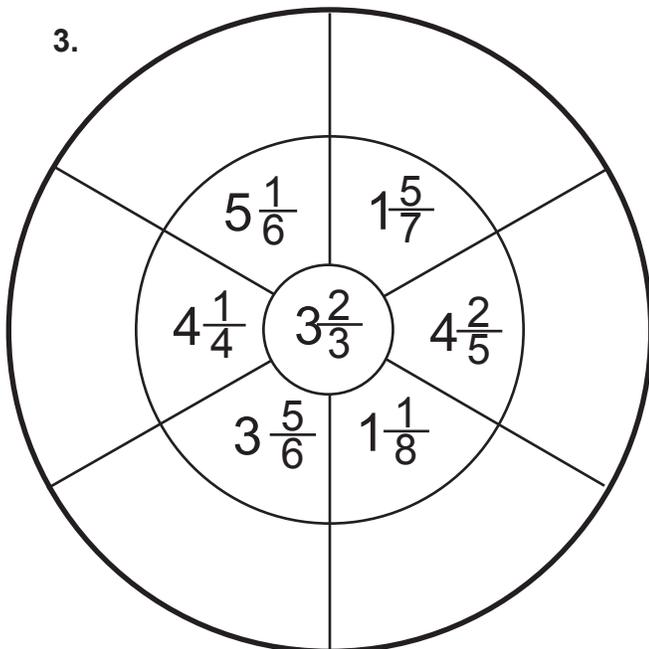
1.



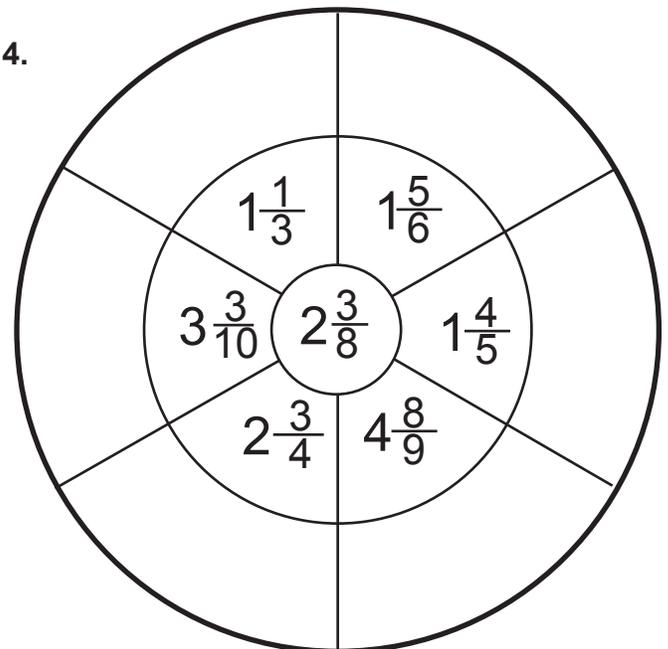
2.



3.



4.



Name \_\_\_\_\_

Skill: Subtracting Fractions

Solve the riddles by subtracting the fractions. Use the answers and the letters beside each answer to fill in the blanks and solve the riddles.

1. What does juice get when it is cold?

$$\frac{7}{8} - \frac{1}{4} = \quad = \mathbf{c}$$

$$\frac{4}{9} - \frac{1}{4} = \quad = \mathbf{e}$$

$$\frac{7}{8} - \frac{5}{12} = \quad = \mathbf{s}$$

$$\frac{1}{2} - \frac{1}{3} = \quad = \mathbf{j}$$

$$\frac{3}{4} - \frac{1}{4} = \quad = \mathbf{i}$$

$$\frac{5}{6} - \frac{1}{5} = \quad = \mathbf{p}$$

$$\frac{1}{5} - \frac{1}{8} = \quad = \mathbf{u}$$

$$\frac{1}{4} - \frac{1}{6} = \quad = \mathbf{b}$$

$$\frac{1}{6} - \frac{1}{9} = \quad = \mathbf{m}$$

---

$\frac{1}{6}$	$\frac{3}{40}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{7}{36}$	$\frac{1}{12}$	$\frac{3}{40}$	$\frac{1}{18}$	$\frac{19}{30}$	$\frac{11}{24}$
---------------	----------------	---------------	---------------	----------------	----------------	----------------	----------------	-----------------	-----------------

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2. Where does water get money from?

$$\frac{11}{12} - \frac{1}{6} = \quad = \mathbf{a}$$

$$\frac{3}{4} - \frac{1}{5} = \quad = \mathbf{i}$$

$$\frac{2}{3} - \frac{1}{9} = \quad = \mathbf{b}$$

$$\frac{1}{3} - \frac{1}{6} = \quad = \mathbf{n}$$

$$\frac{3}{8} - \frac{1}{3} = \quad = \mathbf{v}$$

$$\frac{3}{4} - \frac{1}{2} = \quad = \mathbf{e}$$

$$\frac{9}{10} - \frac{5}{7} = \quad = \mathbf{r}$$

$$\frac{1}{5} - \frac{1}{8} = \quad = \mathbf{k}$$

---

$\frac{3}{4}$	$\frac{13}{70}$	$\frac{11}{20}$	$\frac{1}{24}$	$\frac{1}{4}$	$\frac{13}{70}$	$\frac{5}{9}$	$\frac{3}{4}$	$\frac{1}{6}$	$\frac{3}{40}$
---------------	-----------------	-----------------	----------------	---------------	-----------------	---------------	---------------	---------------	----------------

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3. What is green and sings?

$$\frac{2}{3} - \frac{1}{6} = \quad = \mathbf{a}$$

$$\frac{7}{12} - \frac{1}{4} = \quad = \mathbf{p}$$

$$\frac{8}{9} - \frac{1}{2} = \quad = \mathbf{v}$$

$$\frac{8}{9} - \frac{5}{6} = \quad = \mathbf{i}$$

$$\frac{5}{12} - \frac{1}{3} = \quad = \mathbf{s}$$

$$\frac{4}{5} - \frac{1}{3} = \quad = \mathbf{l}$$

$$\frac{2}{3} - \frac{4}{9} = \quad = \mathbf{y}$$

$$\frac{7}{8} - \frac{1}{2} = \quad = \mathbf{e}$$

$$\frac{3}{4} - \frac{1}{3} = \quad = \mathbf{r}$$

---

$\frac{3}{8}$	$\frac{7}{15}$	$\frac{7}{18}$	$\frac{1}{18}$	$\frac{1}{12}$
---------------	----------------	----------------	----------------	----------------

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$\frac{1}{3}$	$\frac{1}{2}$	$\frac{5}{12}$	$\frac{1}{12}$	$\frac{7}{15}$	$\frac{3}{8}$	$\frac{2}{9}$
---------------	---------------	----------------	----------------	----------------	---------------	---------------

Name \_\_\_\_\_

Skill: Multiplying Fractions

In each box, there are two fractions that, when multiplied, equal another number in the box. Draw a box around the two fractions that can be multiplied to equal the third fraction. Draw a circle around the fraction that equals the product of the other two fractions.

Example:

$\frac{2}{5}$	$\frac{3}{4}$
$\frac{5}{7}$	$\frac{3}{10}$

$$\frac{2}{5} \times \frac{3}{4} = \frac{3}{10}$$

1.

$\frac{2}{3}$	$\frac{8}{21}$
$\frac{8}{10}$	$\frac{4}{7}$

2.

$\frac{1}{4}$	$\frac{1}{3}$
$\frac{3}{8}$	$\frac{3}{4}$

3.

$\frac{3}{9}$	$\frac{5}{18}$
$\frac{1}{6}$	$\frac{1}{2}$

4.

$\frac{7}{8}$	$\frac{3}{8}$
$\frac{1}{2}$	$\frac{3}{4}$

5.

$\frac{2}{7}$	$\frac{3}{7}$
$\frac{4}{5}$	$\frac{8}{35}$

6.

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

7.

$\frac{4}{5}$	$\frac{5}{6}$
$\frac{5}{9}$	$\frac{2}{3}$

8.

$\frac{3}{8}$	$\frac{1}{6}$
$\frac{5}{12}$	$\frac{4}{9}$

9.

$\frac{5}{14}$	$\frac{1}{3}$
$\frac{5}{8}$	$\frac{4}{7}$

Name \_\_\_\_\_

Skill: Changing Mixed Numbers to Improper Fractions

Find and circle all of the pairs of equivalent mixed numbers and improper fractions that are side by side. Pairs of equivalent mixed numbers and improper fractions may go either horizontally or vertically. The first two have been circled for you.

$\frac{13}{5}$	$2\frac{3}{5}$	$3\frac{3}{10}$	$\frac{15}{10}$	$2\frac{2}{7}$	$\frac{16}{7}$	$1\frac{3}{7}$	$\frac{9}{7}$
$1\frac{5}{13}$	$\frac{14}{13}$	$\frac{30}{10}$	$1\frac{1}{2}$	$3\frac{2}{3}$	$1\frac{3}{5}$	$\frac{8}{5}$	$1\frac{2}{7}$
$\frac{15}{12}$	$1\frac{1}{13}$	$\frac{36}{11}$	$3\frac{3}{11}$	$\frac{11}{3}$	$3\frac{1}{3}$	$3\frac{5}{7}$	$\frac{26}{7}$
$1\frac{1}{4}$	$\frac{9}{2}$	$4\frac{1}{4}$	$\frac{19}{8}$	$2\frac{3}{8}$	$\frac{12}{5}$	$5\frac{2}{5}$	$\frac{25}{5}$
$\frac{7}{2}$	$3\frac{1}{2}$	$5\frac{5}{8}$	$\frac{45}{8}$	$\frac{19}{8}$	$2\frac{2}{5}$	$\frac{28}{5}$	$4\frac{5}{7}$
$2\frac{3}{20}$	$\frac{49}{20}$	$2\frac{5}{20}$	$6\frac{3}{5}$	$\frac{33}{5}$	$\frac{42}{16}$	$5\frac{3}{5}$	$\frac{30}{7}$
$\frac{43}{20}$	$2\frac{4}{7}$	$\frac{18}{7}$	$3\frac{2}{7}$	$8\frac{1}{6}$	$\frac{49}{6}$	$\frac{25}{6}$	$4\frac{2}{7}$
$3\frac{7}{12}$	$\frac{43}{12}$	$3\frac{5}{7}$	$\frac{27}{7}$	$3\frac{6}{7}$	$\frac{18}{11}$	$3\frac{7}{10}$	$\frac{37}{10}$

Divide the fractions in each box. The answer to the trivia question is beside the correct answer to the division problem.

1. What does the word "dinosaur" mean?

$$\frac{2}{3} \div \frac{3}{4} =$$

$$\frac{8}{9} = \text{terrible lizard} \quad \frac{2}{9} = \text{long neck}$$

$$\frac{1}{3} = \text{large feet} \quad \frac{5}{12} = \text{thick skin}$$

2. What is one piece of confetti called?

$$\frac{2}{9} \div \frac{1}{3} =$$

$$\frac{3}{4} = \text{unifetti} \quad \frac{5}{6} = \text{monofett}$$

$$\frac{2}{3} = \text{confetto} \quad \frac{7}{8} = \text{confettae}$$

3. From what language does the word "bologna" originate?

$$\frac{5}{8} \div \frac{1}{6} =$$

$$3\frac{3}{4} = \text{Italian} \quad 4\frac{1}{4} = \text{German}$$

$$\frac{1}{3} = \text{Spanish} \quad 2\frac{1}{3} = \text{French}$$

4. Which of the following superheros has no superhuman powers?

$$\frac{4}{5} \div \frac{3}{10} =$$

$$1\frac{1}{8} = \text{superman} \quad 2\frac{1}{3} = \text{spiderman}$$

$$3\frac{2}{3} = \text{aquaman} \quad 2\frac{2}{3} = \text{batman}$$

5. About what percentage of the earth's surface is covered with water?

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

$$1\frac{7}{8} = 50 \quad 1\frac{1}{5} = 70$$

$$2\frac{3}{5} = 30 \quad 2\frac{2}{3} = 25$$

6. Up to how many miles per hour can a crocodile move in water?

$$\frac{1}{6} \div \frac{2}{3} =$$

$$\frac{1}{8} = 25 \text{ mph} \quad \frac{1}{5} = 10 \text{ mph}$$

$$\frac{7}{9} = 5 \text{ mph} \quad \frac{1}{4} = 20 \text{ mph}$$

7. About how many glasses of milk does the average cow produce in its lifetime?

$$\frac{3}{8} \div \frac{4}{5} =$$

$$\frac{3}{10} = 10,000 \quad \frac{13}{17} = 2,500$$

$$\frac{15}{32} = 200,000 \quad \frac{5}{6} = 30,000$$

8. Which of the following makes up about 16% of your body weight?

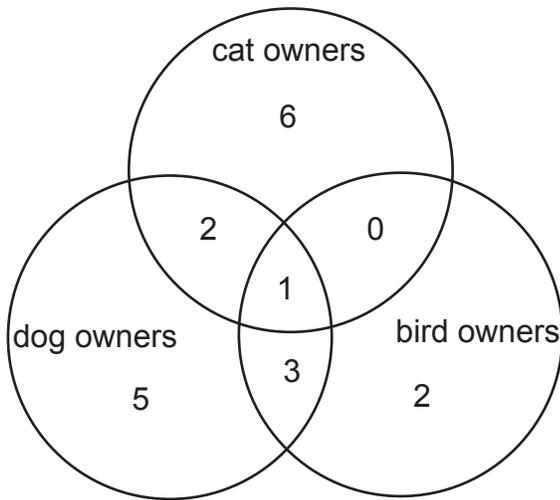
$$\frac{3}{5} \div \frac{9}{10} =$$

$$\frac{1}{5} = \text{bones} \quad \frac{1}{3} = \text{muscles}$$

$$\frac{2}{3} = \text{skin} \quad \frac{7}{8} = \text{water}$$

Name \_\_\_\_\_

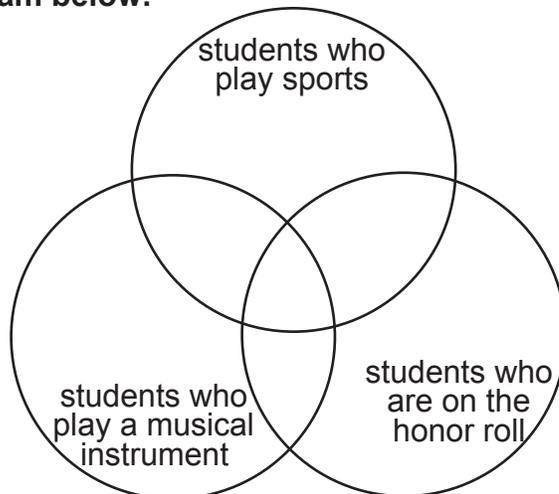
The following diagram is called a Venn diagram. It gives information about a group of pet owners. The area where the circles overlap show the number of people who own more than one type of pet.



Answer the following questions using the information given on the Venn diagram above.

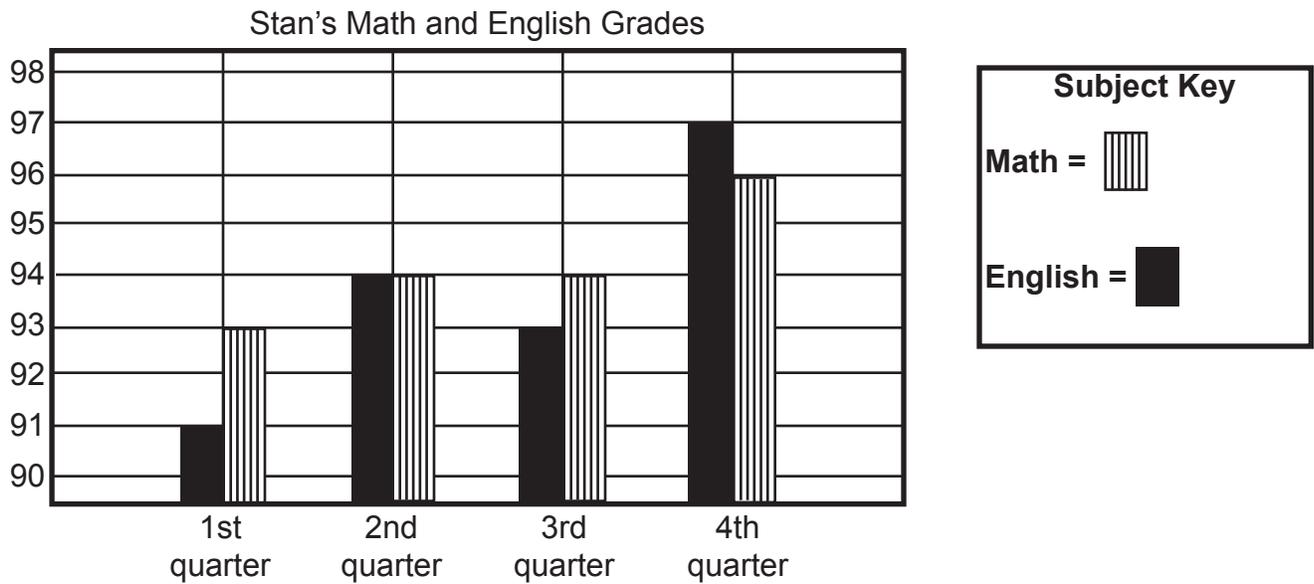
1. How many pet owners are represented all together by the diagram? \_\_\_\_\_
2. How many people own a cat, a dog and a bird? \_\_\_\_\_
3. How many people own both a dog and a cat? \_\_\_\_\_
4. How many people own both a bird and a cat? \_\_\_\_\_
5. How many people own only a dog or a bird? \_\_\_\_\_

Take a survey of the students in your class. Find out how many students play sports, how many students play a musical instrument, and how many students are on the honor roll. Record your results in the Venn diagram below.



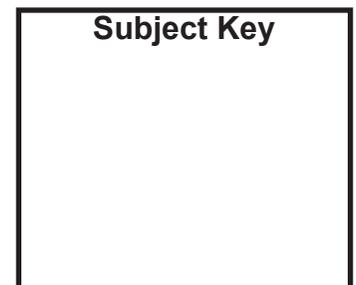
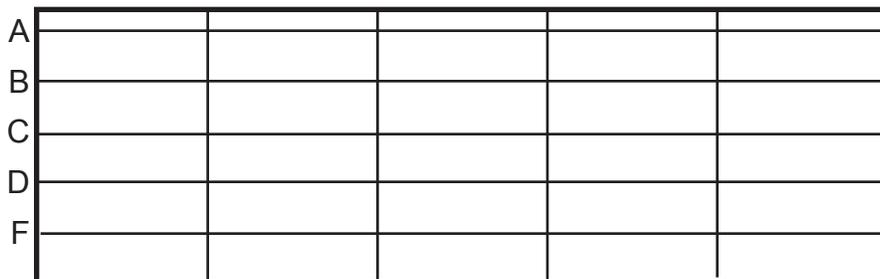
Name \_\_\_\_\_

A bar chart is a way of showing information. Use the bar chart below to answer the questions.



1. What were Stan's grades in math in the first and second quarters? \_\_\_\_\_
2. What was the lowest grade that Stan received? In which quarter did he receive it?  
\_\_\_\_\_
3. In which quarter were Stan's English and math grades the same? \_\_\_\_\_
4. In which quarter did Stan make the best grades? \_\_\_\_\_

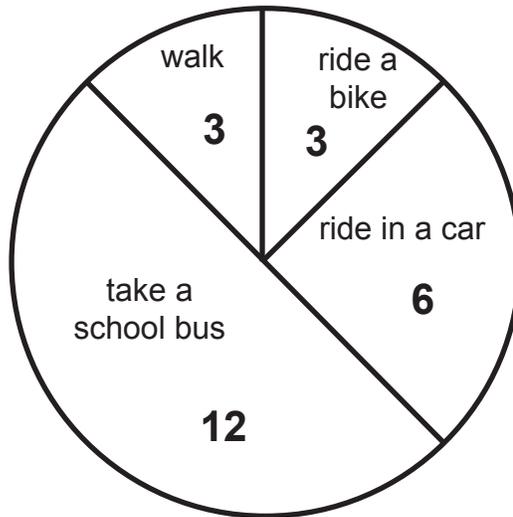
**Make your own bar chart below. Choose two subjects you are studying and chart your grades. Fill in the time period for which you are charting your grades. Be sure to label the time period and subject key.**



Name \_\_\_\_\_

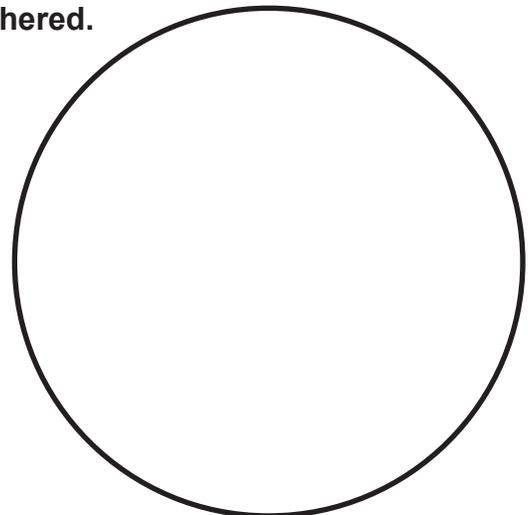
A pie chart is used as one way of showing information. Use the pie chart below to answer the questions.

Method of transportation to and from school by the students in Mrs. Short's class



1. How many students are there all together in Mrs. Short's class? \_\_\_\_\_
2. What is the most used method of transportation to and from school by Mrs. Short's students?  
\_\_\_\_\_
3. What are the least used methods of transportation by Mrs. Short's students?  
\_\_\_\_\_
4. How many students walk and ride a bike to and from school all together? \_\_\_\_\_
5. How many students ride on a bus or in a car to and from school all together? \_\_\_\_\_

Use the empty circle below to make your own pie chart. Think of a question that you can ask your class mates such as what are their favorite sports, foods, or movies. Fill in the pie chart with the results of your survey. Be sure to divide the chart into the correct proportions according to the information you have gathered.



**Probability shows the most likely chances of something happening.**

**For Example:** If you flip a coin, with one side being heads and the other being tails, 50 times, the probability or most likely outcome is that the coin will land on heads 25 times and tails 25 times.

**Perform the following probability experiments and record the results you expect to get and the actual outcome.**

1. Flip a coin 20 times and record how many times the coin lands on heads and how many times it lands on tails.

	Heads	Tails
Expected Results		
Actual Results		

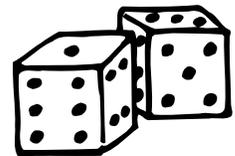


2. Obtain one red, one green and one blue marble. Put all three marbles inside a container such as a can or bag. Make sure you cannot see through the container. Pull one marble out at a time then put it back. Do this 30 times. Record which color you have pulled out each time.

	red	blue	green
Expected Results			
Actual Results			

3. Obtain a six-sided die numbered from one to six. Roll the die 30 times and record what number the die lands on each time.

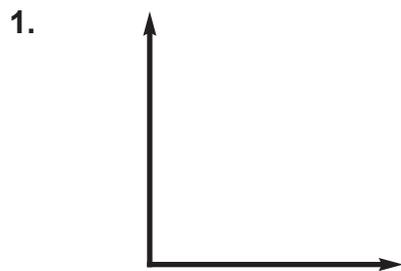
	1	2	3	4	5	6
Expected Results						
Actual Results						



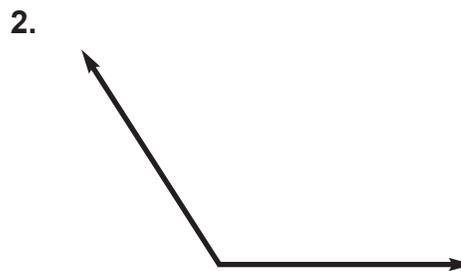
Name \_\_\_\_\_

Skill: Measuring and Drawing Angles

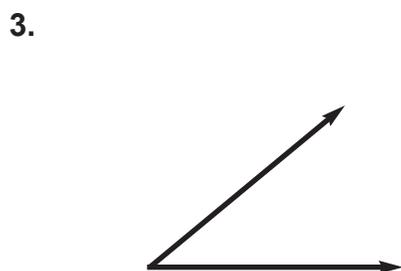
Use a protractor to find the measurement of each of the following angles.



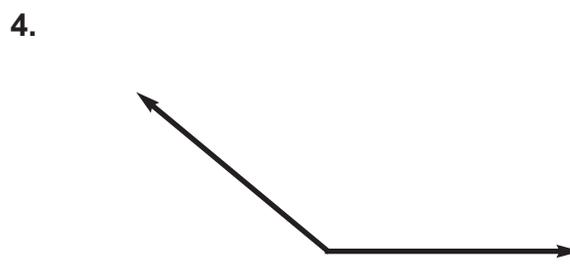
measurement = \_\_\_\_\_



measurement = \_\_\_\_\_



measurement = \_\_\_\_\_



measurement = \_\_\_\_\_

Use a protractor to draw an angle equal to the measurement given.

1. 33 degrees



2. 49 degrees



3. 25 degrees



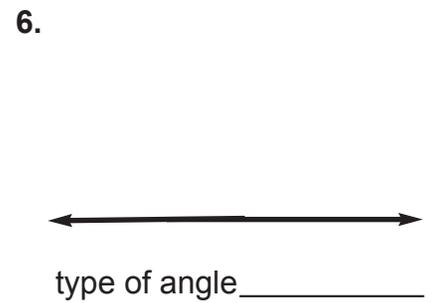
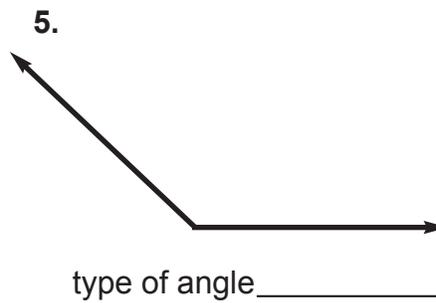
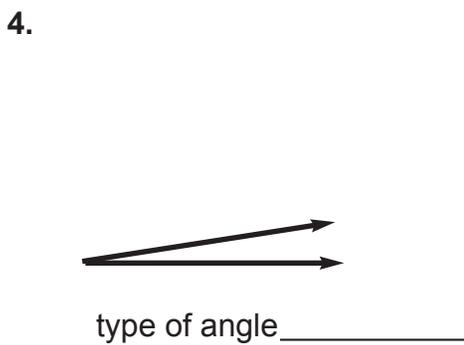
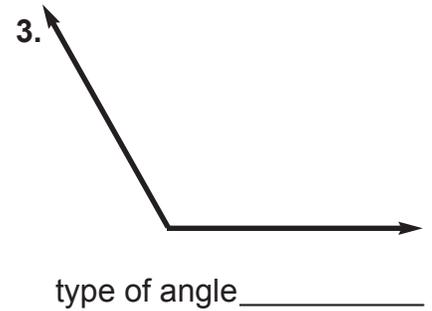
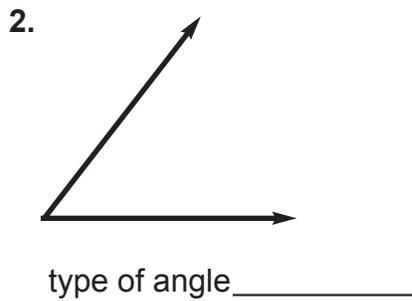
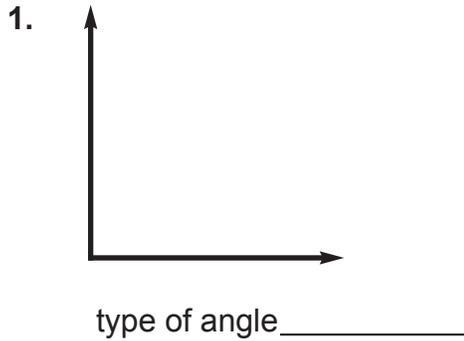
4. 72 degrees



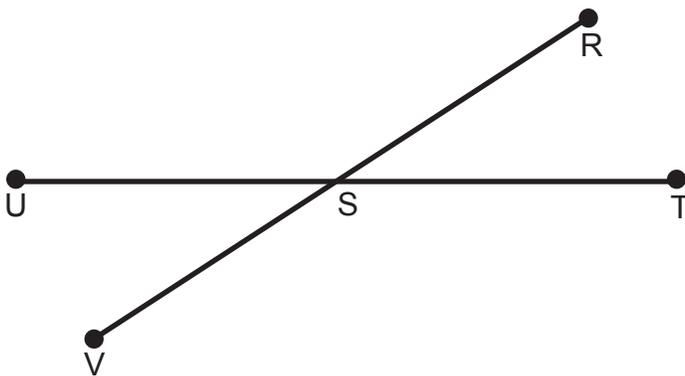
Name \_\_\_\_\_

Skill: Naming Angles

Identify the following angles as one of the following: right, acute, obtuse or straight.



In the figure,  $\overline{UT}$  and  $\overline{RV}$  intersect at point S. Use a protractor to find the measurement of each angle.



$\angle RST =$  \_\_\_\_\_

$\angle USV =$  \_\_\_\_\_

$\angle TSV =$  \_\_\_\_\_

$\angle USR =$  \_\_\_\_\_

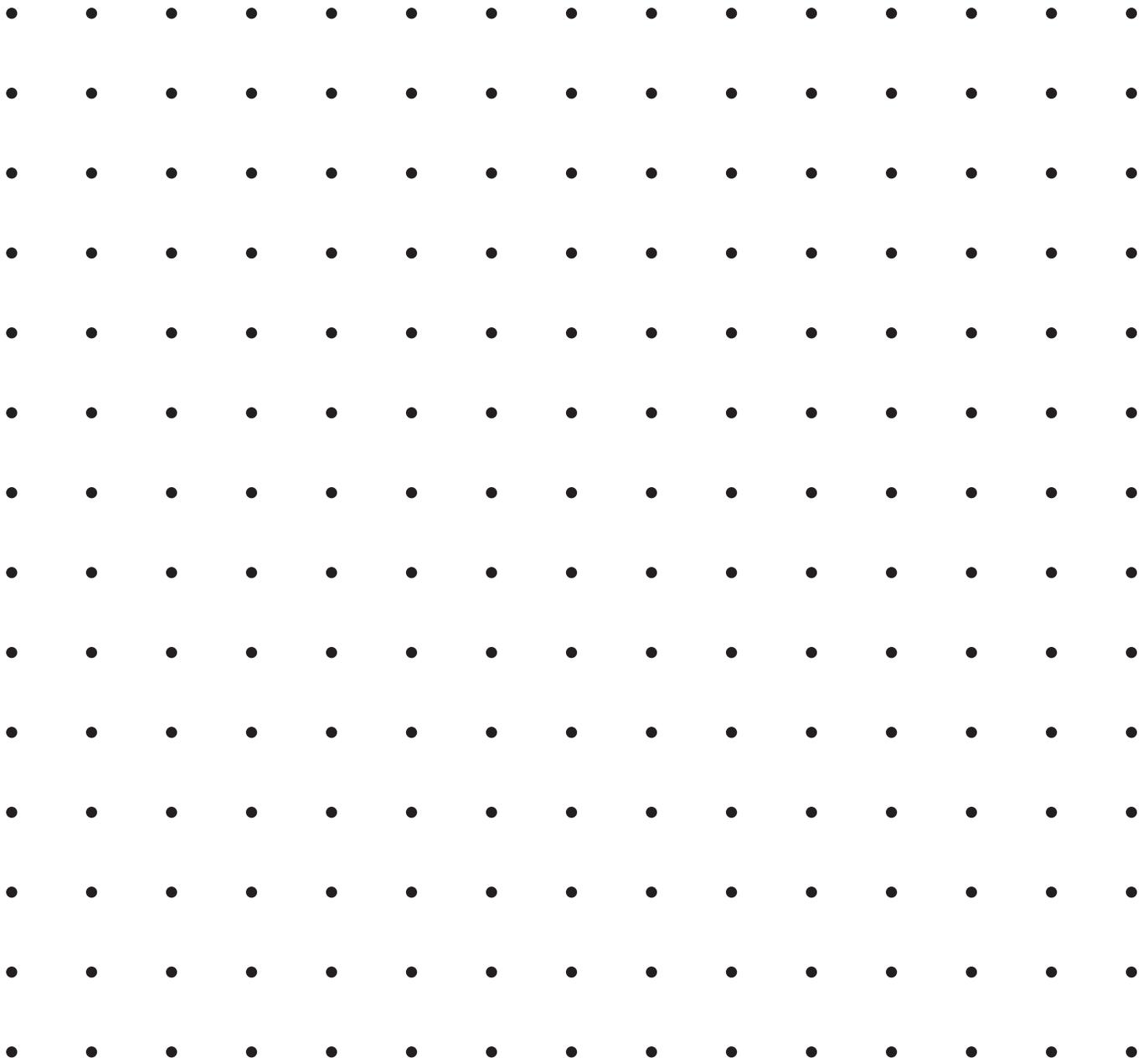
Name \_\_\_\_\_

Skill: Polygons

Look at the chart of number of sides of different polygons.

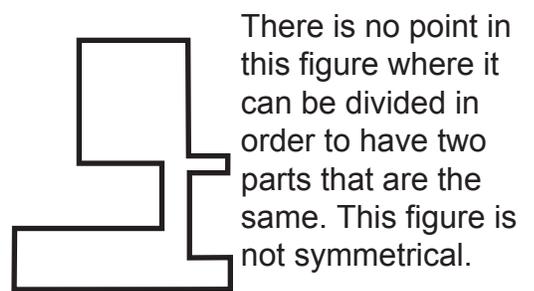
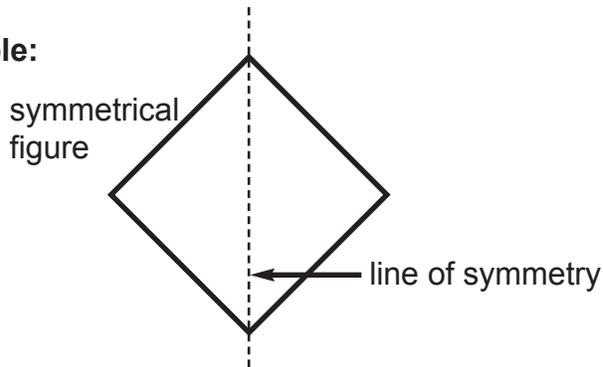
triangle	3 sides	hexagon	6 sides	nonagon	9 sides
rectangle	4 sides	heptagon	7 sides	decagon	10 sides
pentagon	5 sides	octagon	8 sides		

Use the grid of dots below to draw and color one of each of the polygons listed in the chart. Color each shape a different color. Shapes may overlap if necessary.

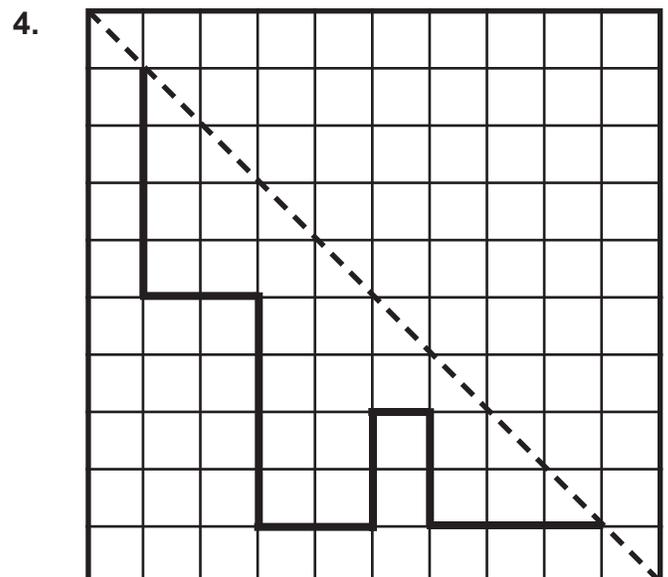
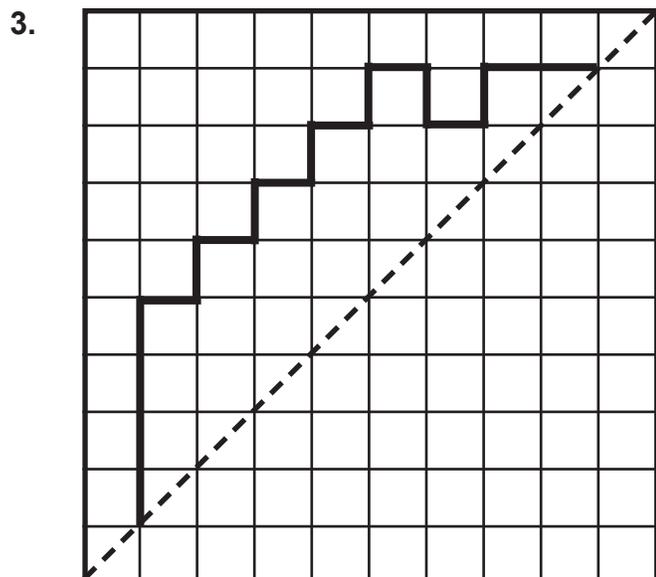
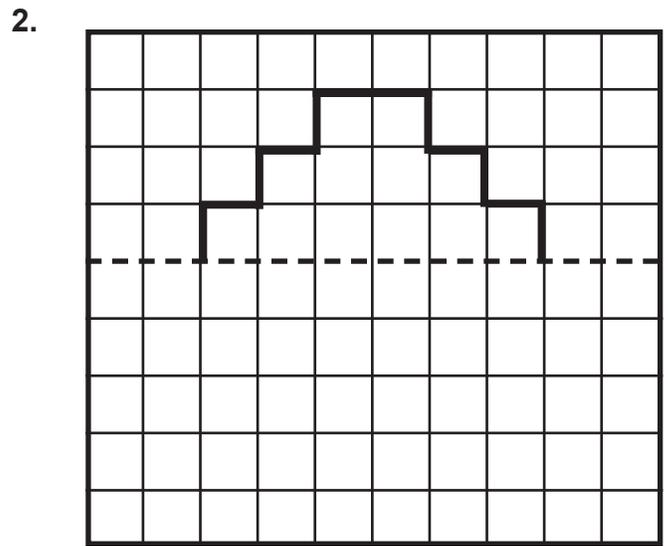
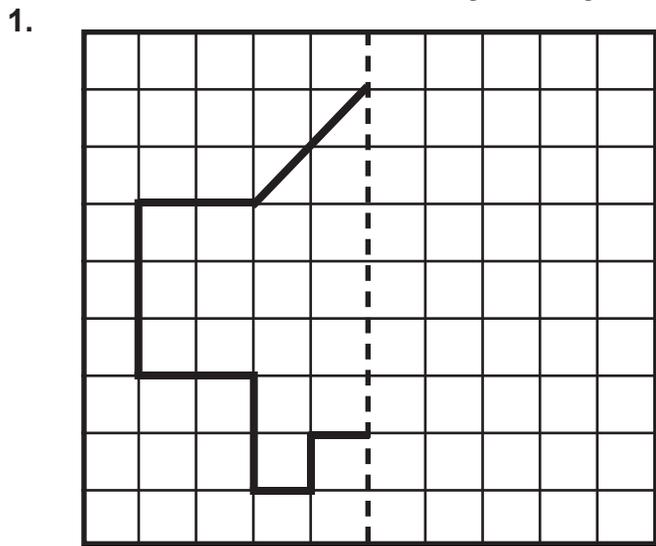


If a certain object or figure can be divided in half in such a way that the two halves are exactly the same, then the figure or object is symmetrical. The dividing line is called the line of symmetry.

Example:



In each of the grids below, draw the rest of the figure so that the figure is symmetrical. Use the dashed line as the line of symmetry.



Name \_\_\_\_\_

A geometric figure can be moved in a plane. There are three basic types of movements,

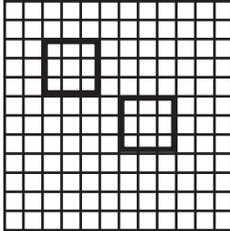
Slide - when every point of the figure moves the same direction and the same distance

Flip - when a figure is flipped over creating a reversed image

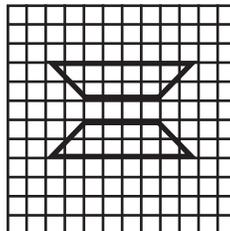
Turn - when a figure is turned at a certain point

Example:

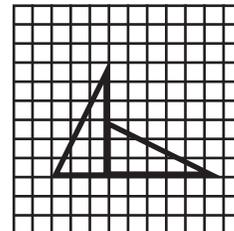
slide



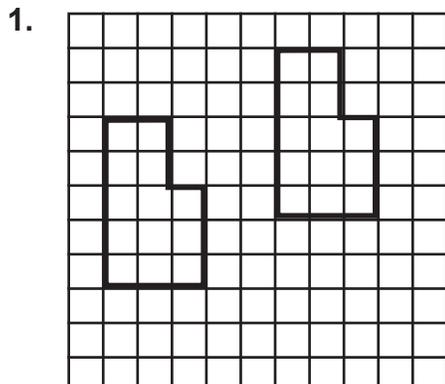
flip



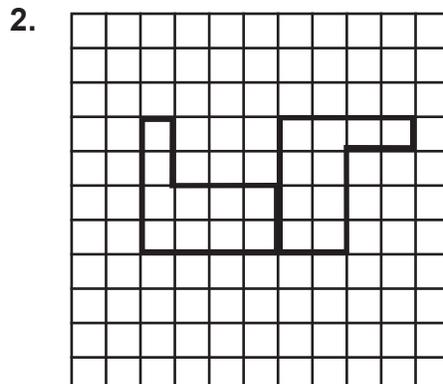
turn



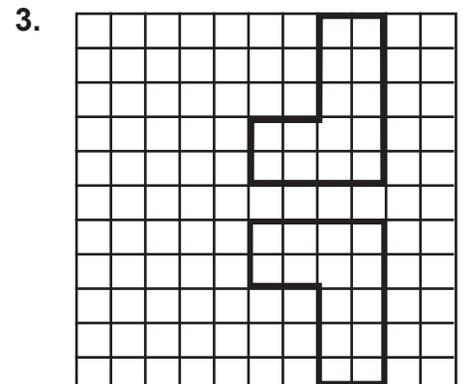
In each of the blanks, write whether the geometric movement is the result of a slide, a flip or a turn.



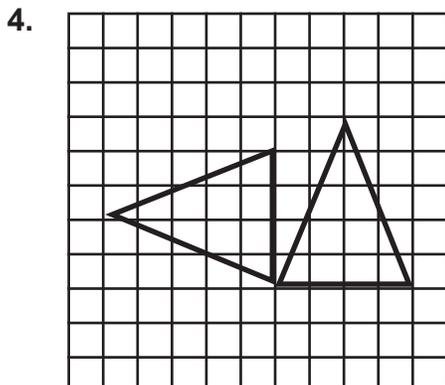
\_\_\_\_\_



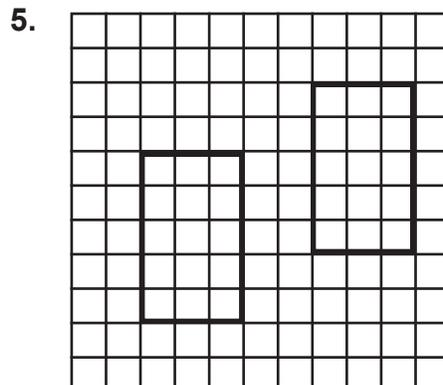
\_\_\_\_\_



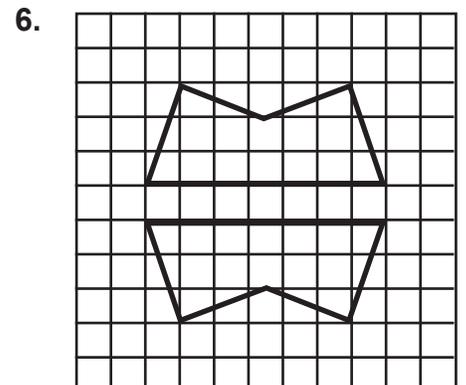
\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_

Name \_\_\_\_\_

A geometric figure can be moved in a plane. There are three basic types of movements.

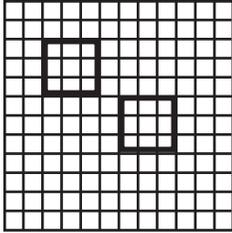
Slide - when every point of the figure moves the same direction and the same distance

Flip - when a figure is flipped over creating a reversed image

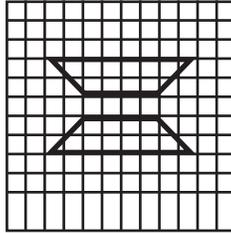
Turn - when a figure is turned at a certain point

Example:

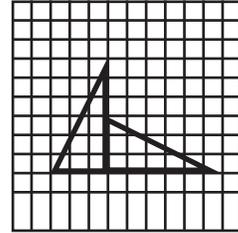
slide



flip

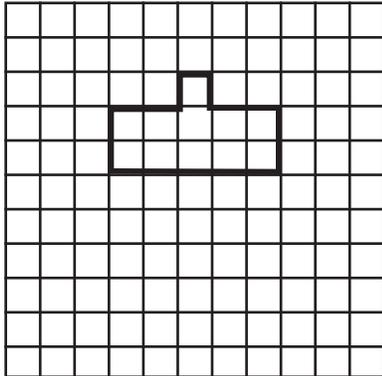


turn

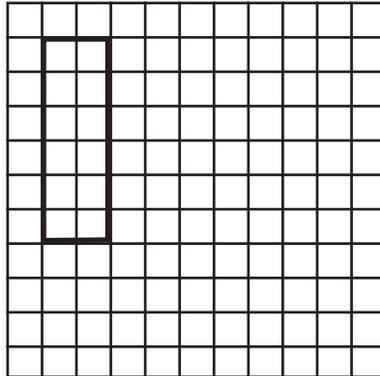


Move each of the following figures by the method indicated.

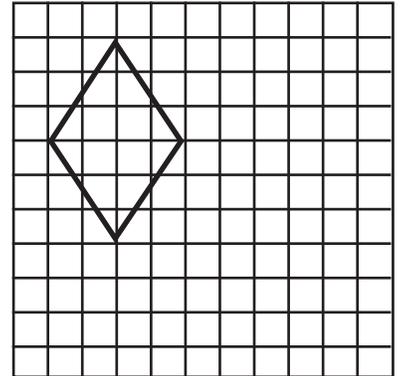
1. flip



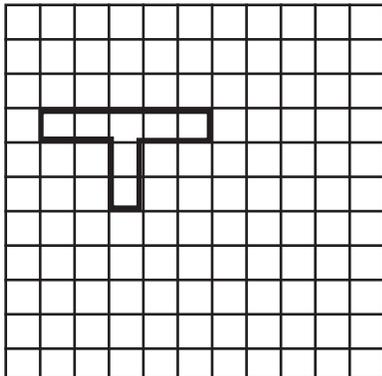
2. turn



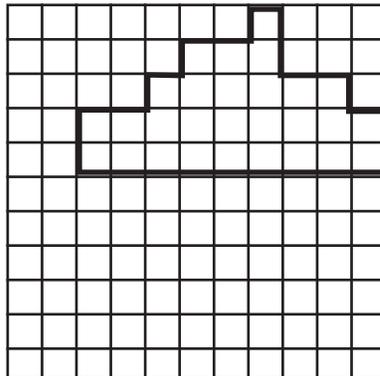
3. slide



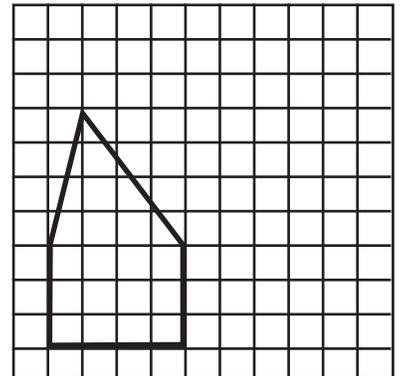
4. turn



5. flip



6. slide



Name \_\_\_\_\_

Skill: Measurements-Lengths

Consider the following:

1 inch	2 inches	3 inches	4 inches	5 inches	6 inches	7 inches
--------	----------	----------	----------	----------	----------	----------

12 inches equals 1 foot

3 feet equals 1 yard

1,760 yards equals 1 mile

Circle the measurement that would be an approximate measurement of each of the following:

- length of a pencil  
7 feet                      7 inches                      7 yards
- height of a tree  
20 miles                      20 feet                      20 inches
- diameter of a drinking glass  
3 inches                      3 yards                      3 miles
- distance from New Orleans, Louisiana to Houston, Texas  
500 inches                      500 feet                      500 miles
- distance from the floor to the ceiling  
8 miles                      8 inches                      8 feet
- length of your arm  
1 yard                      1 inch                      1 foot
- width of the cover of a magazine  
9 inches                      9 feet                      9 miles
- distance that you could walk in 45 minutes  
3 feet                      3 miles                      3 yards
- length of a broom  
4 feet                      4 yards                      4 inches
- length of a swimming pool  
20 yards                      20 inches                      20 miles

Name \_\_\_\_\_

Skill: Measurements-Distance

Consider the following:

1 inch	2 inches	3 inches	4 inches	5 inches	6 inches	7 inches
--------	----------	----------	----------	----------	----------	----------

12 inches equals 1 foot

3 feet equals 1 yard

1,760 yards equals 1 mile

Using a ruler, tape measure or yard stick, give the measurements of the following objects in your classroom. Give the measurements in inches, feet and yards where possible.

1. the length of a door

\_\_\_\_\_ inches

\_\_\_\_\_ feet

\_\_\_\_\_ yards

2. the width of your desk

\_\_\_\_\_ inches

\_\_\_\_\_ feet

\_\_\_\_\_ yards

3. the height of your desk

\_\_\_\_\_ inches

\_\_\_\_\_ feet

\_\_\_\_\_ yards

4. length of your pencil

\_\_\_\_\_ inches

\_\_\_\_\_ feet

\_\_\_\_\_ yards

5. the width of a window

\_\_\_\_\_ inches

\_\_\_\_\_ feet

\_\_\_\_\_ yards

6. the width of a chalkboard

\_\_\_\_\_ inches

\_\_\_\_\_ feet

\_\_\_\_\_ yards

7. the width of a bookshelf

\_\_\_\_\_ inches

\_\_\_\_\_ feet

\_\_\_\_\_ yards

8. the height of a doorway

\_\_\_\_\_ inches

\_\_\_\_\_ feet

\_\_\_\_\_ yards

**Bonus:** The next time you are riding in a car, see how many miles you travel in five minutes. Record the distance you travelled in miles, yards, feet and inches.

Name \_\_\_\_\_

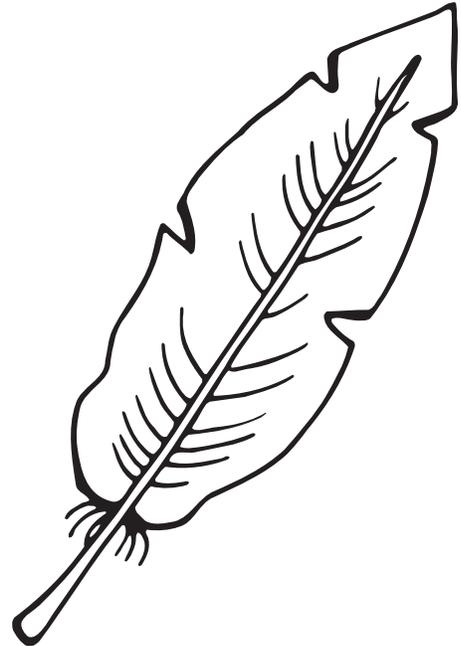
Consider the following:

16 ounces = 1 pound

2,000 pounds = 1 ton

Circle the measurement that would be an approximate measurement of each of the following:

1. a small car  
1 pound                      1 ounce                      1 ton
2. a bag of potatoes  
3 ounces                      3 pounds                      3 tons
3. one slice of cheese  
2 ounces                      2 pounds                      2 tons
4. a feather  
1 ton                              1 ounce                              1 pound
5. a full grown man  
200 pounds                      200 tons                      200 ounces
6. an elephant  
1 ounce                              1 pound                              1 ton
7. a chair  
12 pounds                      12 ounces                      12 tons
8. a cat  
5 ounces                              5 pounds                              5 tons
9. a standard letter  
1 ton                                      1 pound                                      1 ounce
10. a book  
2 pounds                              2 ounces                              2 tons



Name \_\_\_\_\_

Skill: Beginning Algebra-Solving Equations

Find the value of each variable to find the answer to the riddle. Match the answer with the number below each blank in the answer. Write the letter in the blank.

1. If $t = 16$ , then $64 \div t =$ <b>h</b>	2. If $d = 4$ , then $12 \times d =$ <b>u</b>
3. If $f = 14$ , then $35 - f =$ <b>e</b>	4. If $x = 7$ , then $42 \div x =$ <b>r</b>
5. If $b = 12$ , then $65 - b =$ <b>a</b>	6. If $a = 18$ , then $45 + a =$ <b>o</b>
7. If $y = 22$ , then $3 \times y =$ <b>r</b>	8. If $n = 9$ , then $27 \div n =$ <b>t</b>
9. If $c = 5$ , then $10 \times c =$ <b>y</b>	10. If $p = 16$ , then $14 + p =$ <b>b</b>

What gets harder to catch the faster you run?



50

63

48

6

30

66

21

53

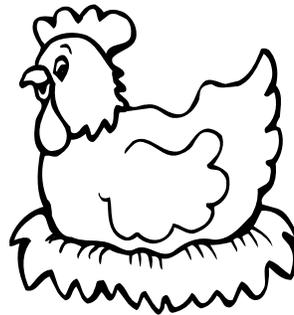
3

4

Name \_\_\_\_\_

Find the value of each algebraic expression. Match your answers with the numbers below the blanks. Write the letters beside your answers in the blanks to find the answer to the riddle.

- |  |  |
|--|--|
| 1. If $y = 4$ , then $10 + y = \underline{\hspace{2cm}}$ = r                     | 2. If $x = 6$ , then $22 + x = \underline{\hspace{2cm}}$ = t                     |
| 3. If $v = 12$ , then $22 + v = \underline{\hspace{2cm}}$ = s                    | 4. If $w = 14$ , then $35 + w = \underline{\hspace{2cm}}$ = y                    |
| 5. If $b = 5$ , then $25 \div b = \underline{\hspace{2cm}}$ = i                  | 6. If $a = 7$ , then $49 \div 7 = \underline{\hspace{2cm}}$ = o                  |
| 7. If $c = 12$ , then $5 \times c = \underline{\hspace{2cm}}$ = l                | 8. If $d = 11$ , then $7 \times d = \underline{\hspace{2cm}}$ = h                |
| 9. If $f = \frac{1}{5}$ , then $\frac{2}{5} + f = \underline{\hspace{2cm}}$ = d  | 10. If $r = \frac{2}{3}$ , then $\frac{1}{6} + r = \underline{\hspace{2cm}}$ = a |
| 11. If $n = \frac{1}{2}$ , then $\frac{1}{4} + n = \underline{\hspace{2cm}}$ = e | 12. If $m = 60$ , then $72 - m = \underline{\hspace{2cm}}$ = n                   |
| 13. If $k = 85$ , then $98 - k = \underline{\hspace{2cm}}$ = g                   |  |



If a rooster laid an egg on the top of a roof, which way would it roll?

- |                           |                           |                           |                           |                           |               |                           |                           |
|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------|---------------------------|---------------------------|
| $\frac{12}{\hspace{1cm}}$ | $\frac{3}{4}$             | $\frac{5}{\hspace{1cm}}$  | $\frac{28}{\hspace{1cm}}$ | $\frac{77}{\hspace{1cm}}$ | $\frac{3}{4}$ | $\frac{14}{\hspace{1cm}}$ |                           |
| $\frac{14}{\hspace{1cm}}$ | $\frac{7}{\hspace{1cm}}$  | $\frac{7}{\hspace{1cm}}$  | $\frac{34}{\hspace{1cm}}$ | $\frac{28}{\hspace{1cm}}$ | $\frac{3}{4}$ | $\frac{14}{\hspace{1cm}}$ | $\frac{34}{\hspace{1cm}}$ |
| $\frac{3}{5}$             | $\frac{7}{\hspace{1cm}}$  | $\frac{12}{\hspace{1cm}}$ | $\frac{28}{\hspace{1cm}}$ | $\frac{60}{\hspace{1cm}}$ | $\frac{5}{6}$ | $\frac{49}{\hspace{1cm}}$ |                           |
| $\frac{3}{4}$             | $\frac{13}{\hspace{1cm}}$ | $\frac{13}{\hspace{1cm}}$ | $\frac{34}{\hspace{1cm}}$ |                           |               |                           |                           |

Name \_\_\_\_\_

Skill: Beginning Algebra-Function Tables

Write the rule for each of the function tables.

1.

$x$	
5	10
10	15
15	20
20	25

rule: \_\_\_\_\_

2.

$y$	
4	11
5	12
8	15
10	17

rule: \_\_\_\_\_

3.

$z$	
28	20
25	17
18	10
8	0

rule: \_\_\_\_\_

4.

$a$	
2	4
6	12
8	16
10	20

rule: \_\_\_\_\_

5.

$b$	
4	20
6	30
8	40
9	45

rule: \_\_\_\_\_

6.

$c$	
36	6
24	4
12	2
6	1

rule: \_\_\_\_\_

Complete each function table.

7.

$n$	$+ 15$
15	
18	
22	
35	

8.

$p$	$\times 6$
4	
6	
7	
8	

9.

$n$	$\div 8$
24	
40	
64	
72	

Name \_\_\_\_\_

Skill: Beginning Algebra-Variables

Solve the equations to find the answers to the trivia questions. The answer to the trivia question is beside the value of the variable.

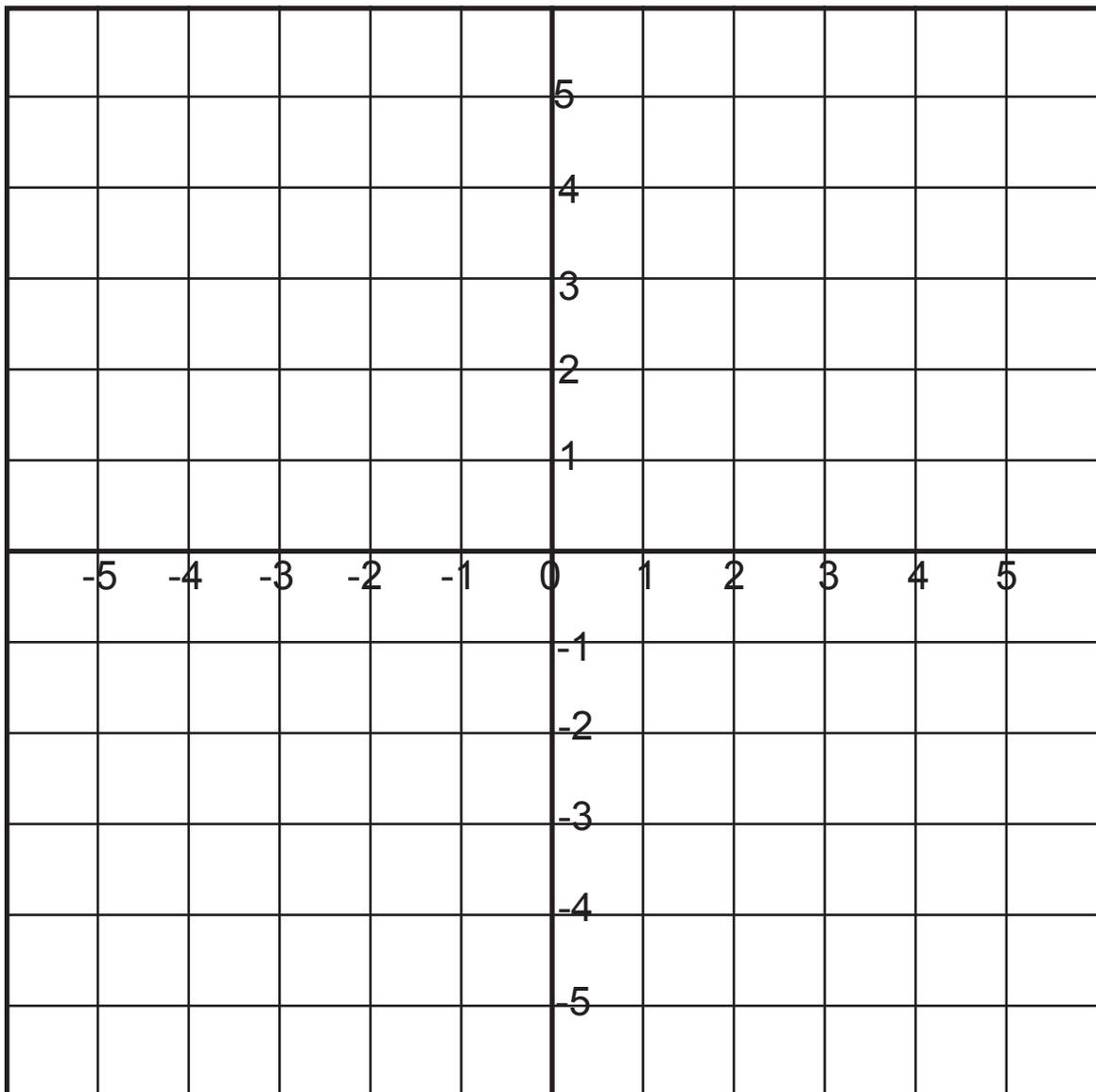
1. If you have pogonophobia, what do you have a fear of?  
If  $x + 9 = 15$ , then  $x =$  \_\_\_\_\_  
5 = cows                  6 = beards                  10 = toys                  8 = spiders
2. What percentage of all forms of life that have existed on Earth are now extinct?  
If  $a \div 6 = 36$ , then  $a =$  \_\_\_\_\_  
4 = 50%                  8 = 65%                  5 = 70%                  6 = 99%
3. How many eyes does a bee have?  
If  $e \times 8 = 48$ , then  $e =$  \_\_\_\_\_  
5 = 8                  8 = 3                  7 = 4                  6 = 5
4. If you have dysmorphobia, you fear being thought of as what?  
If  $c + 8 = 15$ , then  $c =$  \_\_\_\_\_  
3 = bald                  6 = lonely                  5 = smelly                  7 = ugly
5. Which of the following was once sold as medicine?  
If  $g \times 9 = 72$ , then  $g =$  \_\_\_\_\_  
9 = mayonnaise      8 = ketchup                  7 = mustard                  4 = vinegar
6. The average human uses which muscles most?  
If  $m \times 9 = 45$ , then  $m =$  \_\_\_\_\_  
5 = eye muscles      6 = arm muscles      9 = leg muscles      8 = throat muscles
7. How many thousand gallons of fuel does a Boeing 707 use for its take-off climb?  
If  $n \times 12 = 60$ , then  $n =$  \_\_\_\_\_  
10 = 3,000                  5 = 4,000                  11 = 5,000                  6 = 6,000
8. By law, how many times per year is every citizen of Kentucky required to take a bath?  
If  $d - 31 = 8$ , then  $d =$  \_\_\_\_\_  
31 = 20 times                  12 = 10 times                  24 = 12 times                  39 = 1 time
9. What percentage of the human brain is water?  
If  $p \times 8 = 32$ , then  $p =$  \_\_\_\_\_  
40 = 20%                  3 = 40%                  8 = 60%                  4 = 80%
10. What does someone who suffers from anthophobia fear?  
If  $b - 11 = 15$ , then  $b =$  \_\_\_\_\_  
60 = goats                  4 = spiders                  26 = flowers                  23 = ants

Name \_\_\_\_\_

Skill: Finding Coordinates

Use the grid below to plot the pairs of coordinates. Connect the points of each group of coordinates in the order listed to make a shape. Use a different color to connect the points of each shape. Some shapes may overlap.

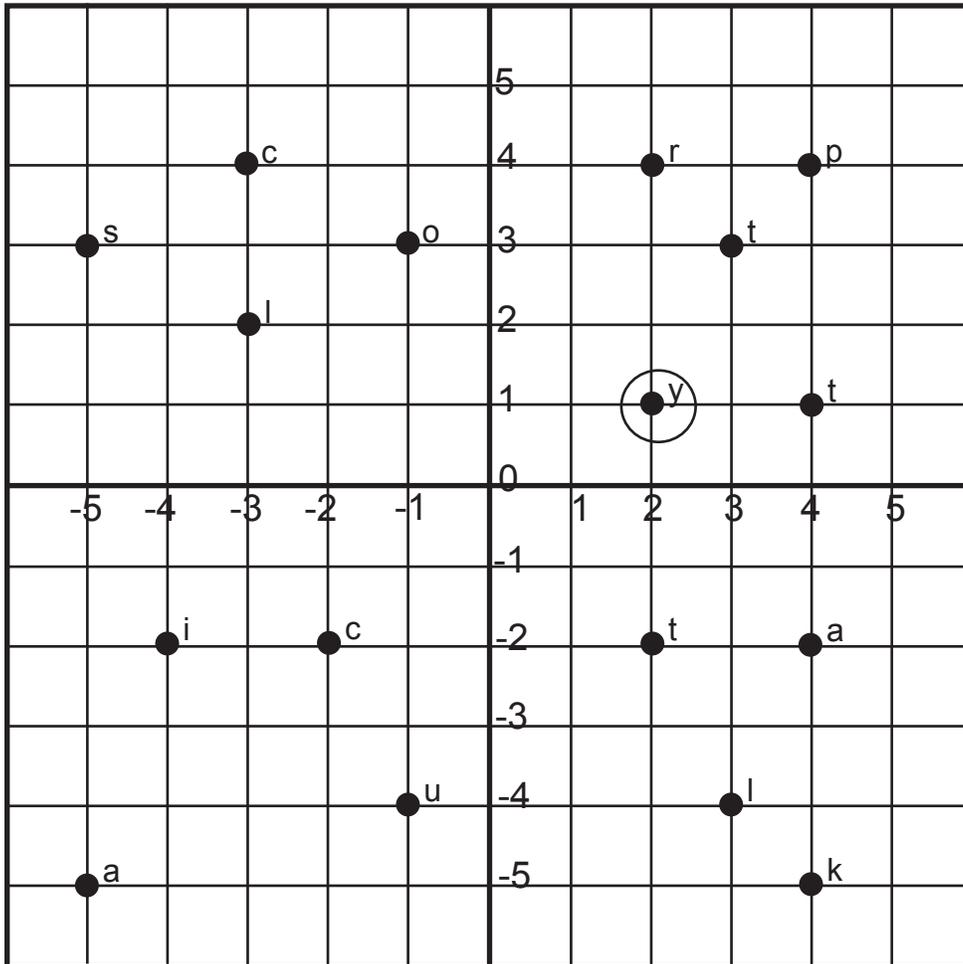
1.  $(-4, 2)$ ,  $(-4, -1)$ ,  $(-1, -1)$ ,  $(-1, 2)$
2.  $(4, 3)$ ,  $(6, 3)$ ,  $(5, 5)$
3.  $(4, 2)$ ,  $(6, 0)$ ,  $(6, -2)$ ,  $(4, -4)$ ,  $(2, -2)$ ,  $(2, 0)$
4.  $(2, 5)$ ,  $(4, 3)$ ,  $(4, 1)$ ,  $(2, -1)$ ,  $(-1, -1)$ ,  $(-3, 1)$ ,  $(-3, 3)$ ,  $(-1, 5)$
5.  $(-2, -2)$ ,  $(2, -2)$ ,  $(4, -4)$ ,  $(0, -6)$ ,  $(-4, -4)$



Name \_\_\_\_\_

Skill: Graphing Coordinates

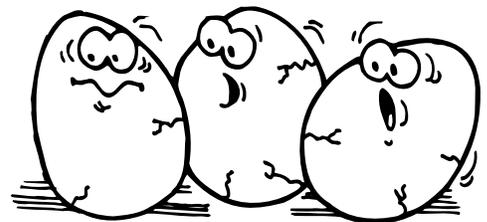
Graph each pair of coordinates. As you graph each pair, you will find a letter beside the point where each pair of coordinates is located. Write the letter of that point in the blank of the answer to the riddle that corresponds to the number of the coordinates you have just plotted. The first one has been done for you.



**Coordinates**

1.  $(2, 1) = y$
2.  $(-4, -2) =$
3.  $(3, -4) =$
4.  $(3, 3) =$
5.  $(-5, 3) =$
6.  $(4, -2) =$
7.  $(-5, -5) =$
8.  $(2, -2) =$
9.  $(-1, 3) =$
10.  $(-3, 2) =$
11.  $(-2, -2) =$
12.  $(4, 1) =$
13.  $(-1, -4) =$
14.  $(2, 4) =$
15.  $(-3, 4) =$
16.  $(4, -5) =$
17.  $(4, 4) =$

What happens when you tell an egg a joke?

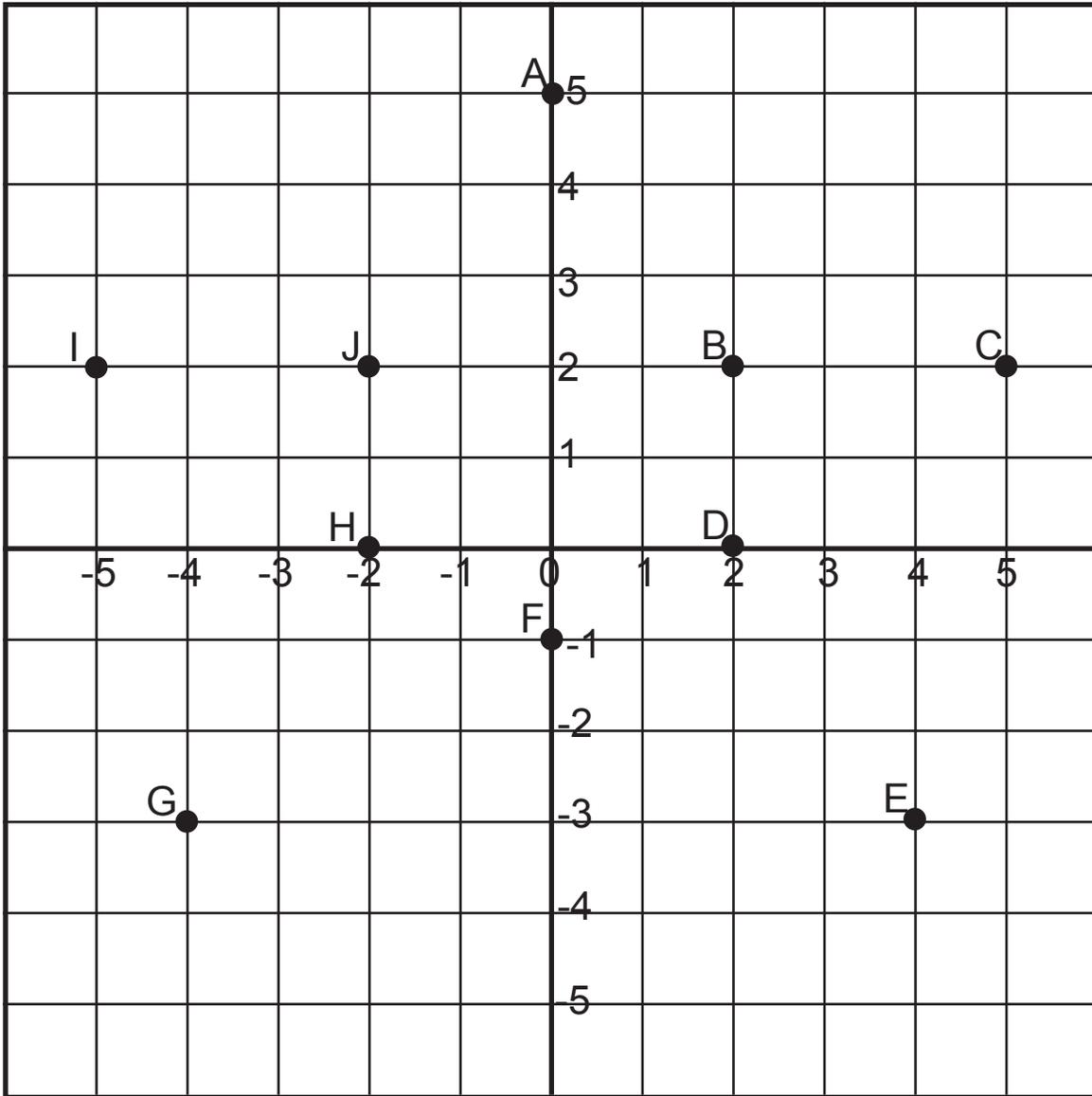


\_\_\_\_\_  $y$   
 2      4                      12      9      8      6      3      10      1  
 \_\_\_\_\_  
 15      14      7      11      16      5                      13      17

Name \_\_\_\_\_

Skill: Graphing Coordinates

Write the coordinates of the points on the graph below .



A. \_\_\_\_\_ F. \_\_\_\_\_

B. \_\_\_\_\_ G. \_\_\_\_\_

C. \_\_\_\_\_ H. \_\_\_\_\_

D. \_\_\_\_\_ I. \_\_\_\_\_

E. \_\_\_\_\_ J. \_\_\_\_\_

Connect the points on the graph in order from A to J.

What shape have you just drawn? \_\_\_\_\_

# Answer Key

Name \_\_\_\_\_

Math Fun, Three and Four Digit Addition

Add the numbers. Use the letters inside your answers to fill in the blanks below and find the answer to the riddle.

1.  $1,387 + 2,465 = 3,852$     2.  $4,781 + 3,102 = 7,883$     3.  $5,067 + 1,688 = 6,755$     4.  $6,237 + 2,845 = 9,082$

5.  $2,786 + 3,373 = 6,159$     6.  $3,832 + 4,258 = 8,090$     7.  $1,100 + 6,871 = 7,971$     8.  $7,085 + 8,428 = 15,513$

9.  $4,161 + 8,078 = 12,239$     10.  $4,581 + 3,617 = 8,198$     11.  $2,781 + 1,829 = 4,610$     12.  $3,347 + 1,487 = 4,834$

13.  $4,560 + 3,352 = 7,912$     14.  $4,842 + 1,629 = 6,471$     15.  $5,091 + 2,482 = 7,573$     16.  $3,374 + 3,274 = 6,648$

17.  $7,045 + 8,576 = 15,621$     18.  $4,465 + 1,688 = 6,153$

Why did Mary go outside with her purse open?

S H E W A S  
E X P E C T I N G  
S O M E C H A N G E  
I N T H E  
W E A T H E R



Name \_\_\_\_\_

Math Division with Remainders

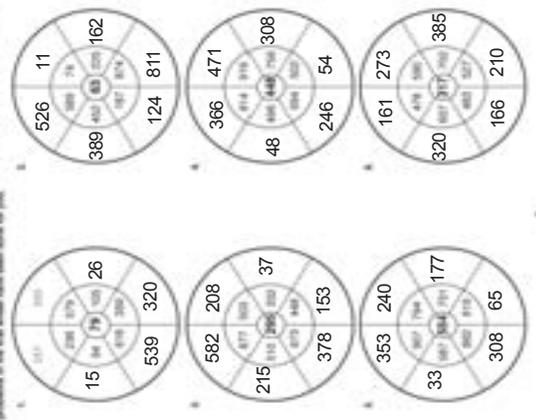
In each box write in the one of division problems that use all of the same numbers.

$11 \overline{) 110}$	$13 \overline{) 130}$	$4 \overline{) 20}$	$11 \overline{) 110}$	$10 \overline{) 100}$
$14 \overline{) 140}$	$12 \overline{) 120}$	$11 \overline{) 110}$	$11 \overline{) 110}$	$11 \overline{) 110}$
$11 \overline{) 110}$				
$11 \overline{) 110}$				
$11 \overline{) 110}$				
$11 \overline{) 110}$				
$11 \overline{) 110}$				
$11 \overline{) 110}$				

Name \_\_\_\_\_

Math Subtraction Fun and Fun!

Subtract the number in the center of the subtraction wheel from the number in the second ring of the subtraction wheel. Write your answer in the outside ring of the wheel. Turn the wheel to see if you are correct. You can use the numbers in the outside ring to help you.



Name \_\_\_\_\_

Math Division with Remainders

None of the division problems below has a remainder. Match the remainder from each division problem with the letter inside your answer. Write the letters in the boxes to the right.

1.  $108 \overline{) 432} = 4$     2.  $307 \overline{) 1228} = 4$     3.  $15 \overline{) 15} = 1$     4.  $96 \overline{) 72} = 3$

5.  $16 \overline{) 144} = 9$     6.  $25 \overline{) 100} = 4$     7.  $13 \overline{) 117} = 9$     8.  $91 \overline{) 81} = 0$

9.  $46 \overline{) 92} = 2$     10.  $27 \overline{) 135} = 5$     11.  $110 \overline{) 660} = 6$     12.  $415 \overline{) 830} = 2$

13.  $12 \overline{) 111} = 9$     14.  $43 \overline{) 172} = 4$

Why did the witch have extra homework?

S H E H A D T O  
P R A C T I C E H E R  
S P E L L I N G



Name \_\_\_\_\_

Math Multiplying Fun, Ten and Three Digit Numbers

Multiply the numbers. The correct answer to the multiplication problem will give you the letter for the true question.

1. What color is the island of an octopus?    A. What was George Washington's first name?  
 a.  $1,000 \times 100 = 100,000$     A. 100    B. 1000    C. 10000    D. 100000  
 b.  $100 \times 100 = 10,000$     B. 100    C. 1000    D. 10000  
 c.  $1000 \times 100 = 100,000$     C. 1000    D. 10000  
 d.  $10000 \times 100 = 1,000,000$     D. 10000    E. 100000

2. What is the smallest piece of pie you can cut a whole pie into?  
 A. 1/2    B. 1/3    C. 1/4    D. 1/5  
 E. 1/6    F. 1/7    G. 1/8    H. 1/9    I. 1/10

3. What is the length of the longest river in the world?  
 A. 10,000 miles    B. 10,000 kilometers    C. 10,000 meters    D. 10,000 centimeters

4. Which year was the first year of the United States?  
 A. 1776    B. 1789    C. 1791    D. 1793

5. About how old is the oldest known human?  
 A. 100 years old    B. 100,000 years old    C. 100,000,000 years old    D. 100,000,000,000 years old

Name \_\_\_\_\_

Math Addition, Subtraction, Multiplication

Add, subtract, multiply or divide to fill in the correct number puzzle.

Across

1.  $2,794 + 3,408 = 6,202$     2.  $1,234 + 3,567 = 4,801$     3.  $215 \times 10 = 2,150$     4.  $4,321 \div 10 = 432.1$     5.  $47 \times 36 = 1,692$     6.  $75 \times 17 = 1,275$     7.  $156 \times 128 = 20,000$     8.  $1,000 \div 10 = 100$     9.  $100 \times 100 = 10,000$     10.  $100 \times 100 = 10,000$

Down

1.  $1,234 + 3,567 = 4,801$     2.  $215 \times 10 = 2,150$     3.  $4,321 \div 10 = 432.1$     4.  $47 \times 36 = 1,692$     5.  $75 \times 17 = 1,275$     6.  $1,000 \div 10 = 100$     7.  $100 \times 100 = 10,000$     8.  $100 \times 100 = 10,000$     9.  $100 \times 100 = 10,000$     10.  $100 \times 100 = 10,000$



# Answer Key

Name \_\_\_\_\_ Skill: Order of Operations

When solving an equation with more than one type of operation, it is important to perform the operations in the correct order.

Example:  $12 + 15 \div 3 + 20 = 12 + 5 + 20 = 37$

- Do the operations in parentheses first:  $12 + 15(3) + 20 = 12 + 45 + 20$
- Multiply and divide from left to right:  $12 + 45 + 20 = 37$
- Add and subtract from left to right:  $12 + 3 + 20 = 37$

Write the following equations with the correct order of operations. Write your answer and the order numbers your answer to the number below the blanks. Write the letters in the blanks to solve the riddle.

- $12 + 4(1 + 2) + 5 = 33$  w h
- $14 + 6(4 + 1) = 35$  s w
- $72 \div 6 + 8 + 18 = 8 + 26 = 34$  e
- $15 \div (7 + 2) + 3 + 6 + 3 = 36$  a b
- $(3 + 8) + 6 + (24 \div 6) = 22 + 6 = 28$  n g
- $(21 \div 3) + (3 + 5) + 10 = 13$  o g
- $105 \div 15 + 8 = 7 + 8 = 15$  e
- $3 + (29 - 5) + (2 + 4) = 16$  a b
- $(3 + 1) + (2 + 6) = 5 + 8 = 13$  e
- $24 \div 6 + (2 + 6) + 8 = 28$  n g
- $8 + 2 + 2 + 24 = 32$  a i
- $16 + 4 + 7 + 2 + 3 + 21 = 43$  e

Why did the cowboy buy a dachshund?

H E W A N T E D  
T O G E T A L O N G  
L I T T L E D O G G Y

Name \_\_\_\_\_ Skill: Finding Fractions and Mixed Numbers

Use the number line to answer the questions.

- Use the number line to answer the questions.
  - What is the largest mixed number based on the number line?  $3\frac{8}{10}$
  - What is the smallest number based on the number line?  $\frac{1}{10}$
  - What is the number line based on the number line?  $2\frac{7}{10}$
  - What is the number line based on the number line?  $3\frac{4}{10}$

Use the number line below to plot the following fractions in mixed numbers. Draw a dot and label each fraction in the boxes or mixed numbers in the boxes.

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

Name \_\_\_\_\_ Skill: Changing Fractions to Equivalent Fractions

What do you call a cheese that is not yours?

No using the riddle.

Each box is a fraction bar. Add a fraction and a whole. Reduce the fraction to simplest form. Write the fraction in the fraction bar, write the sum in the box. If it is a mixed number, write the whole number in the box and the fraction part in the box.

$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$

N A C H O C H E E S E

Name \_\_\_\_\_ Skill: Comparing Fractions

Use the number line to answer the questions.

- Use the number line to answer the questions.
  - What is the largest mixed number based on the number line?  $3\frac{8}{10}$
  - What is the smallest number based on the number line?  $\frac{1}{10}$
  - What is the number line based on the number line?  $2\frac{7}{10}$
  - What is the number line based on the number line?  $3\frac{4}{10}$

Use the number line below to plot the following fractions in mixed numbers. Draw a dot and label each fraction in the boxes or mixed numbers in the boxes.

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

Name \_\_\_\_\_ Skill: Changing Fractions to Equivalent Fractions

For each example below, fill in the number of total parts of the shape and the number of parts shaded in. Reduce the fraction to simplest form. Write the fraction in the box.

- $\frac{5}{25} = \frac{1}{5}$
- $\frac{6}{8} = \frac{3}{4}$
- $\frac{4}{24} = \frac{1}{6}$
- $\frac{10}{15} = \frac{2}{3}$
- $\frac{6}{12} = \frac{1}{2}$

Name \_\_\_\_\_ Skill: Comparing Fractions

Use the number line to answer the questions.

- Use the number line to answer the questions.
  - What is the largest mixed number based on the number line?  $3\frac{8}{10}$
  - What is the smallest number based on the number line?  $\frac{1}{10}$
  - What is the number line based on the number line?  $2\frac{7}{10}$
  - What is the number line based on the number line?  $3\frac{4}{10}$

Use the number line below to plot the following fractions in mixed numbers. Draw a dot and label each fraction in the boxes or mixed numbers in the boxes.

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

# Answer Key

**Page 15**

**188 Adding Fractions with Like Denominators**

Add the numerators. Write your answers with the number below the blanks in the answer to the right. Write the whole number part of your answer in the blank to the left of the blank.

- $\frac{1}{4} + \frac{2}{4} = \frac{3}{4}$   $\frac{3}{4}$   $\frac{1}{2} + \frac{1}{2} = \frac{2}{2}$   $\frac{1}{2}$
- $\frac{1}{5} + \frac{2}{5} = \frac{3}{5}$   $\frac{3}{5}$   $\frac{1}{3} + \frac{2}{3} = \frac{3}{3}$   $1$
- $\frac{1}{10} + \frac{2}{10} = \frac{3}{10}$   $\frac{3}{10}$   $\frac{1}{4} + \frac{3}{4} = \frac{4}{4}$   $1$
- $\frac{2}{8} + \frac{3}{8} = \frac{5}{8}$   $\frac{5}{8}$   $\frac{1}{6} + \frac{2}{6} = \frac{3}{6}$   $\frac{1}{2}$
- $\frac{2}{10} + \frac{3}{10} = \frac{5}{10}$   $\frac{5}{10}$   $\frac{1}{2} + \frac{1}{2} = \frac{2}{2}$   $1$
- $\frac{1}{10} + \frac{2}{10} = \frac{3}{10}$   $\frac{3}{10}$   $\frac{1}{3} + \frac{2}{3} = \frac{3}{3}$   $1$
- $\frac{1}{10} + \frac{2}{10} = \frac{3}{10}$   $\frac{3}{10}$   $\frac{1}{3} + \frac{2}{3} = \frac{3}{3}$   $1$

How did the school call his family?

h e u s e d h i s  
s m e l i u l a r  
p h o n e

**Page 15**

**189 Subtracting Fractions**

Make the unlike by subtracting the fractions. Use the answers and the whole number each answer to fill in the blanks and write the whole number.

- What does your pet eat?  $\frac{1}{2} - \frac{1}{4} = \frac{1}{4}$   $\frac{1}{2} - \frac{1}{4} = \frac{1}{4}$   $\frac{1}{2} - \frac{1}{4} = \frac{1}{4}$
- What do you like to eat?  $\frac{1}{2} - \frac{1}{4} = \frac{1}{4}$   $\frac{1}{2} - \frac{1}{4} = \frac{1}{4}$   $\frac{1}{2} - \frac{1}{4} = \frac{1}{4}$

J u i c e B u m p s

A R i v e r b a n k

E l v i s  
P a r s l e y

**Page 16**

**190 Adding Fractions and Mixed Numbers**

Read the word problems.

- Erin's family wants to go to the beach. They need to go to the store to get 2  $\frac{1}{2}$  gallons of gas. They also need 1  $\frac{1}{2}$  gallons of oil. How much gas and oil do they need in all?  $9 \frac{1}{2}$  gallons
- For their 100th anniversary, the school is having a picnic. They need to buy 1  $\frac{1}{2}$  dozen of apples, 2  $\frac{1}{2}$  dozen of oranges, and 3  $\frac{1}{2}$  dozen of grapes. How many dozens of fruit do they need in all?  $4 \frac{3}{4}$  dozens
- They bought some tickets for the school play. They bought 1  $\frac{1}{2}$  dozen of tickets, 2  $\frac{1}{2}$  dozen of tickets, and 3  $\frac{1}{2}$  dozen of tickets. How many dozens of tickets did they buy in all?  $7 \frac{1}{2}$  dozens
- Maria bought 1  $\frac{1}{2}$  dozen of pencils and 2  $\frac{1}{2}$  dozen of pencils. How many dozens of pencils did she buy in all?  $4 \frac{1}{2}$  dozens

**Page 17**

**191 Adding Mixed Numbers**

Add the mixed numbers in the same of the addition wheel to the mixed number in the center of the addition wheel. Write your answers in the outside ring of the wheel. Use the problems in the book to help you solve the problems.

**Page 17**

**192 Changing Mixed Numbers to Improper Fractions**

Find and circle all of the parts of equivalent mixed numbers and improper fractions that are the same. Parts of equivalent mixed numbers and improper fractions may go together horizontally or vertically. The first two have been started for you.





# Answer Key

Name \_\_\_\_\_ 5th Beginning Algebra Solving Equations

Find the value of each variable to find the answer to the riddle. Write the answer with the letter number each blank in the answer. Write the letter in the blank.

Answers will vary

1. If  $x = 10$ , then  $10 + 1 = 11$   
 2. If  $x = 14$ , then  $14 + 1 = 15$   
 3. If  $x = 12$ , then  $12 + 1 = 13$   
 4. If  $x = 18$ , then  $18 + 1 = 19$   
 5. If  $x = 22$ , then  $22 + 1 = 23$   
 6. If  $x = 5$ , then  $10 + x = 15$   
 7. If  $x = 16$ , then  $16 + x = 32$   
 8. If  $x = 18$ , then  $18 + x = 36$   
 9. If  $x = 20$ , then  $20 + x = 38$   
 10. If  $x = 22$ , then  $22 + x = 40$   
 11. If  $x = 24$ , then  $24 + x = 42$   
 12. If  $x = 26$ , then  $26 + x = 44$   
 13. If  $x = 28$ , then  $28 + x = 46$   
 14. If  $x = 30$ , then  $30 + x = 48$   
 15. If  $x = 32$ , then  $32 + x = 50$   
 16. If  $x = 34$ , then  $34 + x = 52$   
 17. If  $x = 36$ , then  $36 + x = 54$   
 18. If  $x = 38$ , then  $38 + x = 56$   
 19. If  $x = 40$ , then  $40 + x = 58$   
 20. If  $x = 42$ , then  $42 + x = 60$   
 21. If  $x = 44$ , then  $44 + x = 62$   
 22. If  $x = 46$ , then  $46 + x = 64$   
 23. If  $x = 48$ , then  $48 + x = 66$   
 24. If  $x = 50$ , then  $50 + x = 68$   
 25. If  $x = 52$ , then  $52 + x = 70$   
 26. If  $x = 54$ , then  $54 + x = 72$   
 27. If  $x = 56$ , then  $56 + x = 74$   
 28. If  $x = 58$ , then  $58 + x = 76$   
 29. If  $x = 60$ , then  $60 + x = 78$   
 30. If  $x = 62$ , then  $62 + x = 80$   
 31. If  $x = 64$ , then  $64 + x = 82$   
 32. If  $x = 66$ , then  $66 + x = 84$   
 33. If  $x = 68$ , then  $68 + x = 86$   
 34. If  $x = 70$ , then  $70 + x = 88$   
 35. If  $x = 72$ , then  $72 + x = 90$   
 36. If  $x = 74$ , then  $74 + x = 92$   
 37. If  $x = 76$ , then  $76 + x = 94$   
 38. If  $x = 78$ , then  $78 + x = 96$   
 39. If  $x = 80$ , then  $80 + x = 98$   
 40. If  $x = 82$ , then  $82 + x = 100$   
 41. If  $x = 84$ , then  $84 + x = 102$   
 42. If  $x = 86$ , then  $86 + x = 104$   
 43. If  $x = 88$ , then  $88 + x = 106$   
 44. If  $x = 90$ , then  $90 + x = 108$   
 45. If  $x = 92$ , then  $92 + x = 110$   
 46. If  $x = 94$ , then  $94 + x = 112$   
 47. If  $x = 96$ , then  $96 + x = 114$   
 48. If  $x = 98$ , then  $98 + x = 116$   
 49. If  $x = 100$ , then  $100 + x = 118$   
 50. If  $x = 102$ , then  $102 + x = 120$   
 51. If  $x = 104$ , then  $104 + x = 122$   
 52. If  $x = 106$ , then  $106 + x = 124$   
 53. If  $x = 108$ , then  $108 + x = 126$   
 54. If  $x = 110$ , then  $110 + x = 128$   
 55. If  $x = 112$ , then  $112 + x = 130$   
 56. If  $x = 114$ , then  $114 + x = 132$   
 57. If  $x = 116$ , then  $116 + x = 134$   
 58. If  $x = 118$ , then  $118 + x = 136$   
 59. If  $x = 120$ , then  $120 + x = 138$   
 60. If  $x = 122$ , then  $122 + x = 140$   
 61. If  $x = 124$ , then  $124 + x = 142$   
 62. If  $x = 126$ , then  $126 + x = 144$   
 63. If  $x = 128$ , then  $128 + x = 146$   
 64. If  $x = 130$ , then  $130 + x = 148$   
 65. If  $x = 132$ , then  $132 + x = 150$   
 66. If  $x = 134$ , then  $134 + x = 152$   
 67. If  $x = 136$ , then  $136 + x = 154$   
 68. If  $x = 138$ , then  $138 + x = 156$   
 69. If  $x = 140$ , then  $140 + x = 158$   
 70. If  $x = 142$ , then  $142 + x = 160$   
 71. If  $x = 144$ , then  $144 + x = 162$   
 72. If  $x = 146$ , then  $146 + x = 164$   
 73. If  $x = 148$ , then  $148 + x = 166$   
 74. If  $x = 150$ , then  $150 + x = 168$   
 75. If  $x = 152$ , then  $152 + x = 170$   
 76. If  $x = 154$ , then  $154 + x = 172$   
 77. If  $x = 156$ , then  $156 + x = 174$   
 78. If  $x = 158$ , then  $158 + x = 176$   
 79. If  $x = 160$ , then  $160 + x = 178$   
 80. If  $x = 162$ , then  $162 + x = 180$   
 81. If  $x = 164$ , then  $164 + x = 182$   
 82. If  $x = 166$ , then  $166 + x = 184$   
 83. If  $x = 168$ , then  $168 + x = 186$   
 84. If  $x = 170$ , then  $170 + x = 188$   
 85. If  $x = 172$ , then  $172 + x = 190$   
 86. If  $x = 174$ , then  $174 + x = 192$   
 87. If  $x = 176$ , then  $176 + x = 194$   
 88. If  $x = 178$ , then  $178 + x = 196$   
 89. If  $x = 180$ , then  $180 + x = 198$   
 90. If  $x = 182$ , then  $182 + x = 200$   
 91. If  $x = 184$ , then  $184 + x = 202$   
 92. If  $x = 186$ , then  $186 + x = 204$   
 93. If  $x = 188$ , then  $188 + x = 206$   
 94. If  $x = 190$ , then  $190 + x = 208$   
 95. If  $x = 192$ , then  $192 + x = 210$   
 96. If  $x = 194$ , then  $194 + x = 212$   
 97. If  $x = 196$ , then  $196 + x = 214$   
 98. If  $x = 198$ , then  $198 + x = 216$   
 99. If  $x = 200$ , then  $200 + x = 218$   
 100. If  $x = 202$ , then  $202 + x = 220$   
 101. If  $x = 204$ , then  $204 + x = 222$   
 102. If  $x = 206$ , then  $206 + x = 224$   
 103. If  $x = 208$ , then  $208 + x = 226$   
 104. If  $x = 210$ , then  $210 + x = 228$   
 105. If  $x = 212$ , then  $212 + x = 230$   
 106. If  $x = 214$ , then  $214 + x = 232$   
 107. If  $x = 216$ , then  $216 + x = 234$   
 108. If  $x = 218$ , then  $218 + x = 236$   
 109. If  $x = 220$ , then  $220 + x = 238$   
 110. If  $x = 222$ , then  $222 + x = 240$   
 111. If  $x = 224$ , then  $224 + x = 242$   
 112. If  $x = 226$ , then  $226 + x = 244$   
 113. If  $x = 228$ , then  $228 + x = 246$   
 114. If  $x = 230$ , then  $230 + x = 248$   
 115. If  $x = 232$ , then  $232 + x = 250$   
 116. If  $x = 234$ , then  $234 + x = 252$   
 117. If  $x = 236$ , then  $236 + x = 254$   
 118. If  $x = 238$ , then  $238 + x = 256$   
 119. If  $x = 240$ , then  $240 + x = 258$   
 120. If  $x = 242$ , then  $242 + x = 260$   
 121. If  $x = 244$ , then  $244 + x = 262$   
 122. If  $x = 246$ , then  $246 + x = 264$   
 123. If  $x = 248$ , then  $248 + x = 266$   
 124. If  $x = 250$ , then  $250 + x = 268$   
 125. If  $x = 252$ , then  $252 + x = 270$   
 126. If  $x = 254$ , then  $254 + x = 272$   
 127. If  $x = 256$ , then  $256 + x = 274$   
 128. If  $x = 258$ , then  $258 + x = 276$   
 129. If  $x = 260$ , then  $260 + x = 278$   
 130. If  $x = 262$ , then  $262 + x = 280$   
 131. If  $x = 264$ , then  $264 + x = 282$   
 132. If  $x = 266$ , then  $266 + x = 284$   
 133. If  $x = 268$ , then  $268 + x = 286$   
 134. If  $x = 270$ , then  $270 + x = 288$   
 135. If  $x = 272$ , then  $272 + x = 290$   
 136. If  $x = 274$ , then  $274 + x = 292$   
 137. If  $x = 276$ , then  $276 + x = 294$   
 138. If  $x = 278$ , then  $278 + x = 296$   
 139. If  $x = 280$ , then  $280 + x = 298$   
 140. If  $x = 282$ , then  $282 + x = 300$   
 141. If  $x = 284$ , then  $284 + x = 302$   
 142. If  $x = 286$ , then  $286 + x = 304$   
 143. If  $x = 288$ , then  $288 + x = 306$   
 144. If  $x = 290$ , then  $290 + x = 308$   
 145. If  $x = 292$ , then  $292 + x = 310$   
 146. If  $x = 294$ , then  $294 + x = 312$   
 147. If  $x = 296$ , then  $296 + x = 314$   
 148. If  $x = 298$ , then  $298 + x = 316$   
 149. If  $x = 300$ , then  $300 + x = 318$   
 150. If  $x = 302$ , then  $302 + x = 320$   
 151. If  $x = 304$ , then  $304 + x = 322$   
 152. If  $x = 306$ , then  $306 + x = 324$   
 153. If  $x = 308$ , then  $308 + x = 326$   
 154. If  $x = 310$ , then  $310 + x = 328$   
 155. If  $x = 312$ , then  $312 + x = 330$   
 156. If  $x = 314$ , then  $314 + x = 332$   
 157. If  $x = 316$ , then  $316 + x = 334$   
 158. If  $x = 318$ , then  $318 + x = 336$   
 159. If  $x = 320$ , then  $320 + x = 338$   
 160. If  $x = 322$ , then  $322 + x = 340$   
 161. If  $x = 324$ , then  $324 + x = 342$   
 162. If  $x = 326$ , then  $326 + x = 344$   
 163. If  $x = 328$ , then  $328 + x = 346$   
 164. If  $x = 330$ , then  $330 + x = 348$   
 165. If  $x = 332$ , then  $332 + x = 350$   
 166. If  $x = 334$ , then  $334 + x = 352$   
 167. If  $x = 336$ , then  $336 + x = 354$   
 168. If  $x = 338$ , then  $338 + x = 356$   
 169. If  $x = 340$ , then  $340 + x = 358$   
 170. If  $x = 342$ , then  $342 + x = 360$   
 171. If  $x = 344$ , then  $344 + x = 362$   
 172. If  $x = 346$ , then  $346 + x = 364$   
 173. If  $x = 348$ , then  $348 + x = 366$   
 174. If  $x = 350$ , then  $350 + x = 368$   
 175. If  $x = 352$ , then  $352 + x = 370$   
 176. If  $x = 354$ , then  $354 + x = 372$   
 177. If  $x = 356$ , then  $356 + x = 374$   
 178. If  $x = 358$ , then  $358 + x = 376$   
 179. If  $x = 360$ , then  $360 + x = 378$   
 180. If  $x = 362$ , then  $362 + x = 380$   
 181. If  $x = 364$ , then  $364 + x = 382$   
 182. If  $x = 366$ , then  $366 + x = 384$   
 183. If  $x = 368$ , then  $368 + x = 386$   
 184. If  $x = 370$ , then  $370 + x = 388$   
 185. If  $x = 372$ , then  $372 + x = 390$   
 186. If  $x = 374$ , then  $374 + x = 392$   
 187. If  $x = 376$ , then  $376 + x = 394$   
 188. If  $x = 378$ , then  $378 + x = 396$   
 189. If  $x = 380$ , then  $380 + x = 398$   
 190. If  $x = 382$ , then  $382 + x = 400$   
 191. If  $x = 384$ , then  $384 + x = 402$   
 192. If  $x = 386$ , then  $386 + x = 404$   
 193. If  $x = 388$ , then  $388 + x = 406$   
 194. If  $x = 390$ , then  $390 + x = 408$   
 195. If  $x = 392$ , then  $392 + x = 410$   
 196. If  $x = 394$ , then  $394 + x = 412$   
 197. If  $x = 396$ , then  $396 + x = 414$   
 198. If  $x = 398$ , then  $398 + x = 416$   
 199. If  $x = 400$ , then  $400 + x = 418$   
 200. If  $x = 402$ , then  $402 + x = 420$   
 201. If  $x = 404$ , then  $404 + x = 422$   
 202. If  $x = 406$ , then  $406 + x = 424$   
 203. If  $x = 408$ , then  $408 + x = 426$   
 204. If  $x = 410$ , then  $410 + x = 428$   
 205. If  $x = 412$ , then  $412 + x = 430$   
 206. If  $x = 414$ , then  $414 + x = 432$   
 207. If  $x = 416$ , then  $416 + x = 434$   
 208. If  $x = 418$ , then  $418 + x = 436$   
 209. If  $x = 420$ , then  $420 + x = 438$   
 210. If  $x = 422$ , then  $422 + x = 440$   
 211. If  $x = 424$ , then  $424 + x = 442$   
 212. If  $x = 426$ , then  $426 + x = 444$   
 213. If  $x = 428$ , then  $428 + x = 446$   
 214. If  $x = 430$ , then  $430 + x = 448$   
 215. If  $x = 432$ , then  $432 + x = 450$   
 216. If  $x = 434$ , then  $434 + x = 452$   
 217. If  $x = 436$ , then  $436 + x = 454$   
 218. If  $x = 438$ , then  $438 + x = 456$   
 219. If  $x = 440$ , then  $440 + x = 458$   
 220. If  $x = 442$ , then  $442 + x = 460$   
 221. If  $x = 444$ , then  $444 + x = 462$   
 222. If  $x = 446$ , then  $446 + x = 464$   
 223. If  $x = 448$ , then  $448 + x = 466$   
 224. If  $x = 450$ , then  $450 + x = 468$   
 225. If  $x = 452$ , then  $452 + x = 470$   
 226. If  $x = 454$ , then  $454 + x = 472$   
 227. If  $x = 456$ , then  $456 + x = 474$   
 228. If  $x = 458$ , then  $458 + x = 476$   
 229. If  $x = 460$ , then  $460 + x = 478$   
 230. If  $x = 462$ , then  $462 + x = 480$   
 231. If  $x = 464$ , then  $464 + x = 482$   
 232. If  $x = 466$ , then  $466 + x = 484$   
 233. If  $x = 468$ , then  $468 + x = 486$   
 234. If  $x = 470$ , then  $470 + x = 488$   
 235. If  $x = 472$ , then  $472 + x = 490$   
 236. If  $x = 474$ , then  $474 + x = 492$   
 237. If  $x = 476$ , then  $476 + x = 494$   
 238. If  $x = 478$ , then  $478 + x = 496$   
 239. If  $x = 480$ , then  $480 + x = 498$   
 240. If  $x = 482$ , then  $482 + x = 500$   
 241. If  $x = 484$ , then  $484 + x = 502$   
 242. If  $x = 486$ , then  $486 + x = 504$   
 243. If  $x = 488$ , then  $488 + x = 506$   
 244. If  $x = 490$ , then  $490 + x = 508$   
 245. If  $x = 492$ , then  $492 + x = 510$   
 246. If  $x = 494$ , then  $494 + x = 512$   
 247. If  $x = 496$ , then  $496 + x = 514$   
 248. If  $x = 498$ , then  $498 + x = 516$   
 249. If  $x = 500$ , then  $500 + x = 518$   
 250. If  $x = 502$ , then  $502 + x = 520$   
 251. If  $x = 504$ , then  $504 + x = 522$   
 252. If  $x = 506$ , then  $506 + x = 524$   
 253. If  $x = 508$ , then  $508 + x = 526$   
 254. If  $x = 510$ , then  $510 + x = 528$   
 255. If  $x = 512$ , then  $512 + x = 530$   
 256. If  $x = 514$ , then  $514 + x = 532$   
 257. If  $x = 516$ , then  $516 + x = 534$   
 258. If  $x = 518$ , then  $518 + x = 536$   
 259. If  $x = 520$ , then  $520 + x = 538$   
 260. If  $x = 522$ , then  $522 + x = 540$   
 261. If  $x = 524$ , then  $524 + x = 542$   
 262. If  $x = 526$ , then  $526 + x = 544$   
 263. If  $x = 528$ , then  $528 + x = 546$   
 264. If  $x = 530$ , then  $530 + x = 548$   
 265. If  $x = 532$ , then  $532 + x = 550$   
 266. If  $x = 534$ , then  $534 + x = 552$   
 267. If  $x = 536$ , then  $536 + x = 554$   
 268. If  $x = 538$ , then  $538 + x = 556$   
 269. If  $x = 540$ , then  $540 + x = 558$   
 270. If  $x = 542$ , then  $542 + x = 560$   
 271. If  $x = 544$ , then  $544 + x = 562$   
 272. If  $x = 546$ , then  $546 + x = 564$   
 273. If  $x = 548$ , then  $548 + x = 566$   
 274. If  $x = 550$ , then  $550 + x = 568$   
 275. If  $x = 552$ , then  $552 + x = 570$   
 276. If  $x = 554$ , then  $554 + x = 572$   
 277. If  $x = 556$ , then  $556 + x = 574$   
 278. If  $x = 558$ , then  $558 + x = 576$   
 279. If  $x = 560$ , then  $560 + x = 578$   
 280. If  $x = 562$ , then  $562 + x = 580$   
 281. If  $x = 564$ , then  $564 + x = 582$   
 282. If  $x = 566$ , then  $566 + x = 584$   
 283. If  $x = 568$ , then  $568 + x = 586$   
 284. If  $x = 570$ , then  $570 + x = 588$   
 285. If  $x = 572$ , then  $572 + x = 590$   
 286. If  $x = 574$ , then  $574 + x = 592$   
 287. If  $x = 576$ , then  $576 + x = 594$   
 288. If  $x = 578$ , then  $578 + x = 596$   
 289. If  $x = 580$ , then  $580 + x = 598$   
 290. If  $x = 582$ , then  $582 + x = 600$   
 291. If  $x = 584$ , then  $584 + x = 602$   
 292. If  $x = 586$ , then  $586 + x = 604$   
 293. If  $x = 588$ , then  $588 + x = 606$   
 294. If  $x = 590$ , then  $590 + x = 608$   
 295. If  $x = 592$ , then  $592 + x = 610$   
 296. If  $x = 594$ , then  $594 + x = 612$   
 297. If  $x = 596$ , then  $596 + x = 614$   
 298. If  $x = 598$ , then  $598 + x = 616$   
 299. If  $x = 600$ , then  $600 + x = 618$   
 300. If  $x = 602$ , then  $602 + x = 620$   
 301. If  $x = 604$ , then  $604 + x = 622$   
 302. If  $x = 606$ , then  $606 + x = 624$   
 303. If  $x = 608$ , then  $608 + x = 626$   
 304. If  $x = 610$ , then  $610 + x = 628$   
 305. If  $x = 612$ , then  $612 + x = 630$   
 306. If  $x = 614$ , then  $614 + x = 632$   
 307. If  $x = 616$ , then  $616 + x = 634$   
 308. If  $x = 618$ , then  $618 + x = 636$   
 309. If  $x = 620$ , then  $620 + x = 638$   
 310. If  $x = 622$ , then  $622 + x = 640$   
 311. If  $x = 624$ , then  $624 + x = 642$   
 312. If  $x = 626$ , then  $626 + x = 644$   
 313. If  $x = 628$ , then  $628 + x = 646$   
 314. If  $x = 630$ , then  $630 + x = 648$   
 315. If  $x = 632$ , then  $632 + x = 650$   
 316. If  $x = 634$ , then  $634 + x = 652$   
 317. If  $x = 636$ , then  $636 + x = 654$   
 318. If  $x = 638$ , then  $638 + x = 656$   
 319. If  $x = 640$ , then  $640 + x = 658$   
 320. If  $x = 642$ , then  $642 + x = 660$   
 321. If  $x = 644$ , then  $644 + x = 662$   
 322. If  $x = 646$ , then  $646 + x = 664$   
 323. If  $x = 648$ , then  $648 + x = 666$   
 324. If  $x = 650$ , then  $650 + x = 668$   
 325. If  $x = 652$ , then  $652 + x = 670$   
 326. If  $x = 654$ , then  $654 + x = 672$   
 327. If  $x = 656$ , then  $656 + x = 674$   
 328. If  $x = 658$ , then  $658 + x = 676$   
 329. If  $x = 660$ , then

# Answer Key

**8th Drawing Coordinates**

Name \_\_\_\_\_

Write the coordinates of the points on the graph below.

A. (0, 5)    B. (2, 2)    C. (5, 2)    D. (2, 0)

E. (4, -3)    F. (0, -1)    G. (-4, -3)    H. (-5, 2)

I. (-2, 0)    J. (2, 0)

Connect the points on the graph to make from A to J a star.

What shape have you just drawn? \_\_\_\_\_

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**8th Drawing Coordinates**

Name \_\_\_\_\_

Graph each pair of coordinates. As you graph each pair, you will find a letter inside the point where both pairs of coordinates intersect. Write the letter of that point in the blank of the answer to the riddle that corresponds to the number of the coordinates you have just plotted. You will find out how to solve the riddle.

**Coordinates**

1. (2, 1) = P  
2. (4, 0) = I  
3. (5, -4) = L  
4. (5, 3) = S  
5. (5, 3) = A  
6. (4, -2) = S  
7. (5, -6) = A  
8. (2, -2) = T  
9. (4, 2) = O  
10. (1, 2) = L  
11. (5, -2) = C  
12. (4, 1) = T  
13. (1, -4) = U  
14. (2, 4) = R  
15. (3, 4) = C  
16. (4, -2) = K  
17. (4, 2) = P

What happens when you tell an egg a joke?

I T T O T A L L  
C R A C K S U P

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**8th Finding Coordinates**

Name \_\_\_\_\_

Use the grid below to plot the pairs of coordinates. Connect the points of each group of coordinates in the color listed to make a shape. Use a different color to connect the points of each shape. Then compare your results.

1. (4, 2), (4, -2), (4, -5), (4, 5)

2. (4, 3), (5, 3), (5, 5)

3. (4, 2), (5, 2), (5, 4), (4, 4), (4, 2)

4. (5, 3), (4, 3), (4, 1), (5, 1), (5, 3), (4, 3)

5. (4, -2), (5, -2), (4, -4), (5, -4), (4, -2)

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