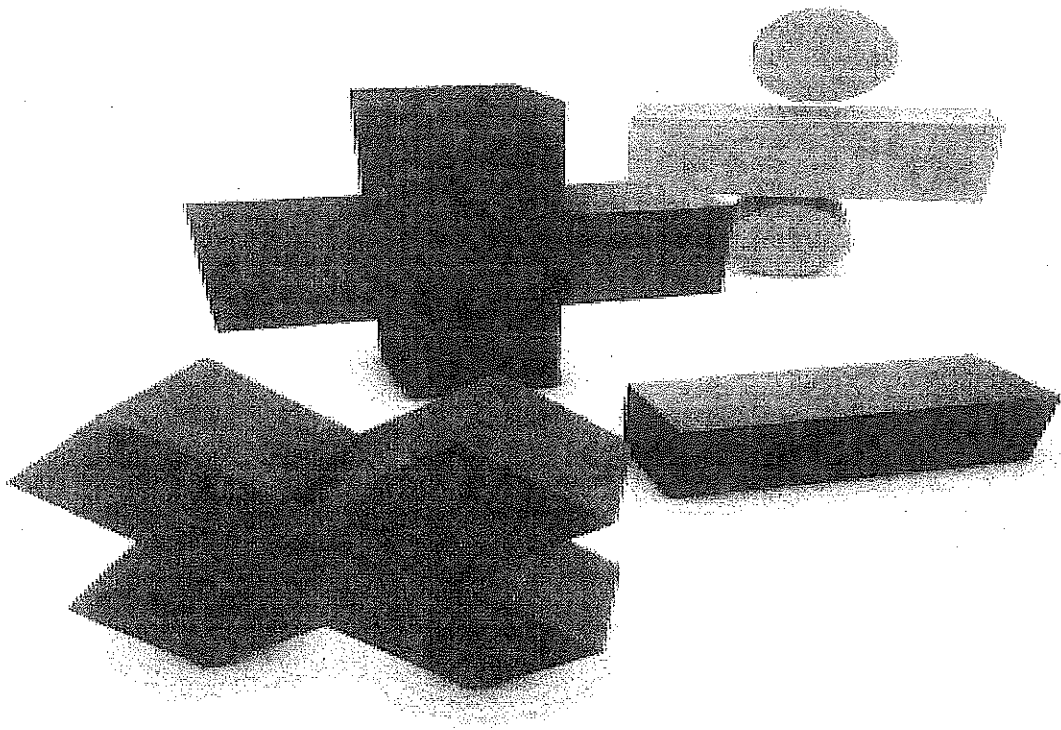


Getting Ready

For

Fourth Grade




Name _____

Name _____

Round and About

Round the distances to the nearest hundred and ten.

	Nearest Hundred	Nearest Ten
1. 628 miles	_____ miles	_____ miles
2. 704 miles	_____ miles	_____ miles
3. 58 miles	_____ miles	_____ miles

4.  Explain why 58 can be rounded to the nearest hundred even though there is not a digit in the hundreds place.

5. **Stretch Your Thinking** Write a number that is the same when rounded to the nearest hundred and ten. Explain.

Name _____

Properties on Parade

Use addition properties to find the unknown numbers.
Write the property that you used.

1. $(\square + 7) + 30 = 47$

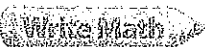
2. $(44 + 8) + 52 = \square + (\square + 52)$

3. $(96 + 7) + 73 = \square + (\square + 73)$

4. $(9 + 17) + \square = 59$

5. $(\square + 3) + 75 = 98$

6. $5 + \square + 65 = 89$

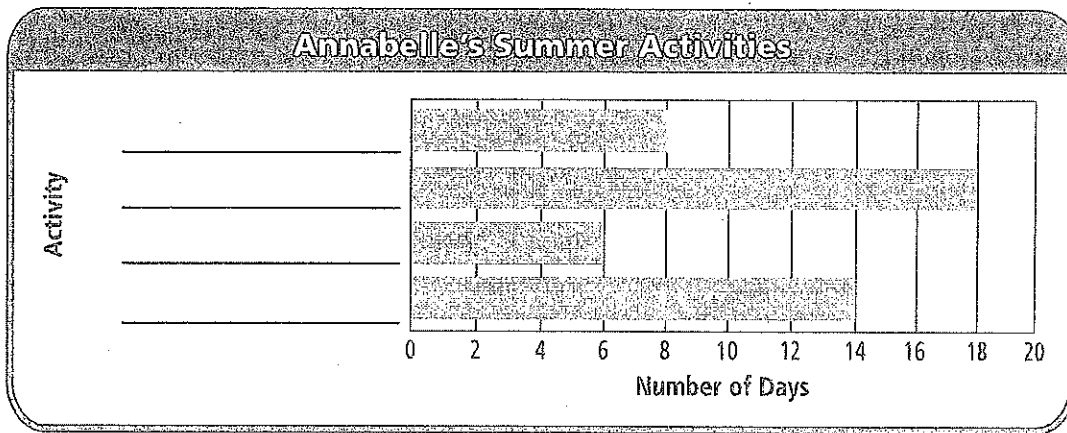
7.  Explain how using addition properties can make adding easier.

Name _____

Summer Bar Graph

Annabelle tells about her summer by using a bar graph. She shows the number of days she spent doing each activity, but forgets to write the activities! Use the clues below to help Annabelle complete her bar graph.

1. Annabelle spent the least amount of time babysitting.
2. Annabelle did not take an art class.
3. Annabelle spent 4 fewer days at camp than she did volunteering.
4. Annabelle spent 2 more days at the beach than she did babysitting.



5. **Write Math** Which clue was the least helpful? Explain.

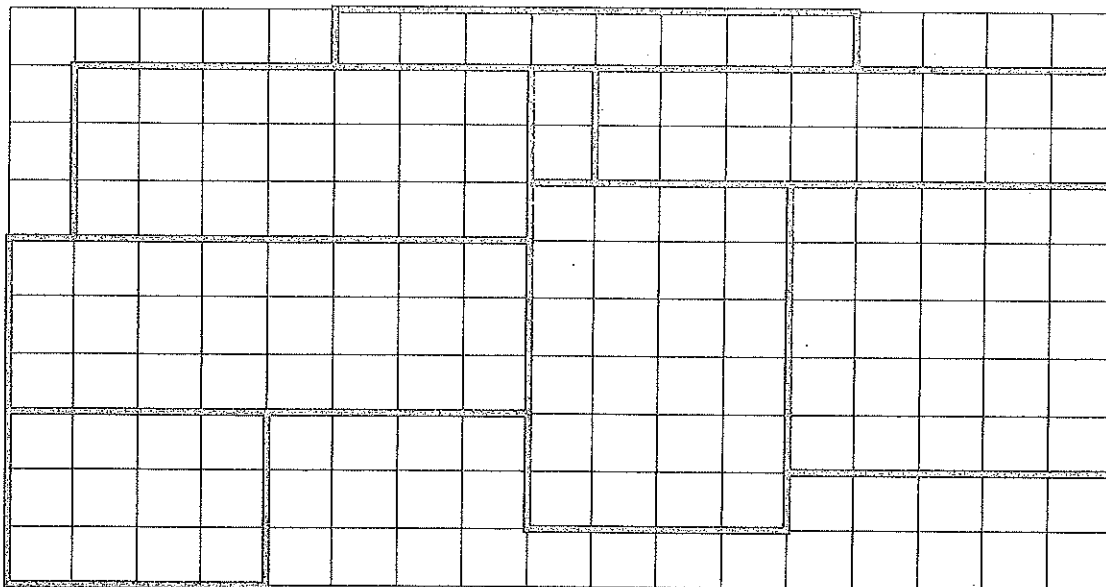
6. **Stretch Your Thinking** Do you think the graph tells what Annabelle did every day in the summer? Explain.


Name _____

Garden Arrays

Ed's Garden Nursery is displaying new flowers. Each type of flower is arranged in an array. Use the clues to label each part of the flower display. Then find the number of each type of flower. Color the display.

1. Yellow mums 2×8 array = _____ mums
2. Purple pansies 6×4 array = _____ pansies
3. Pink begonias 5×5 array = _____ begonias
4. Orange marigolds 3×7 array = _____ marigolds
5. White petunias 3×4 array = _____ petunias
6. Blue tulips 3×8 array = _____ tulips



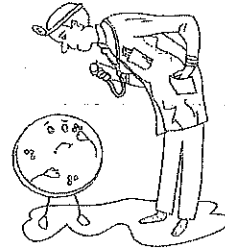
7. Add a 2×5 array for a red rose garden. Label it and color it red.
8.  **Write Math** Explain how you decided where each type of flower belonged.

Name _____

Products in Parentheses

For each exercise, multiply the numbers inside the parentheses first. Then add or subtract.

Find the answer in the code box. Write the code letter on the line above the exercise number at the bottom of the page to answer the riddle.



CODE

A	B	C	E	F	I	L	M	N	O	R	S	T	U	W	Y
7	8	9	10	11	13	14	15	16	20	21	28	29	31	33	35

1. $(5 \times 2) + (1 \times 3) = \underline{\hspace{2cm}}$
2. $(6 \times 4) + (5 \times 1) = \underline{\hspace{2cm}}$
3. $(7 \times 3) - (2 \times 5) = \underline{\hspace{2cm}}$
4. $(3 \times 6) - (4 \times 2) = \underline{\hspace{2cm}}$
5. $(2 \times 3) + (4 \times 2) = \underline{\hspace{2cm}}$
6. $(9 \times 6) - (5 \times 5) = \underline{\hspace{2cm}}$
7. $(9 \times 3) - (6 \times 3) = \underline{\hspace{2cm}}$
8. $(1 \times 3) + (3 \times 6) = \underline{\hspace{2cm}}$
9. $(3 \times 5) + (8 \times 2) = \underline{\hspace{2cm}}$
10. $(3 \times 9) - (6 \times 2) = \underline{\hspace{2cm}}$
11. $(3 \times 8) - (4 \times 4) = \underline{\hspace{2cm}}$
12. $(4 \times 2) + (9 \times 3) = \underline{\hspace{2cm}}$

Why did the cookie go to the doctor?

Name _____

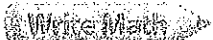
Multistep Problems

Solve.

1. Keith bought 2 flats of strawberries. Each flat contains 8 baskets. If he gave away 4 baskets, how many baskets does Keith have left?
2. Tim's friends gave him \$15 for pizza. If he buys 3 pizzas for \$7 each, how much more money does Tim need?

3. One bag contains 6 apples. Jeremy bought 5 bags of apples. If Jeremy gave away 5 apples, how many apples does he have left?
4. Greeting cards come in packages of 8 cards for \$4. How many greeting cards can Sheila buy for \$24?

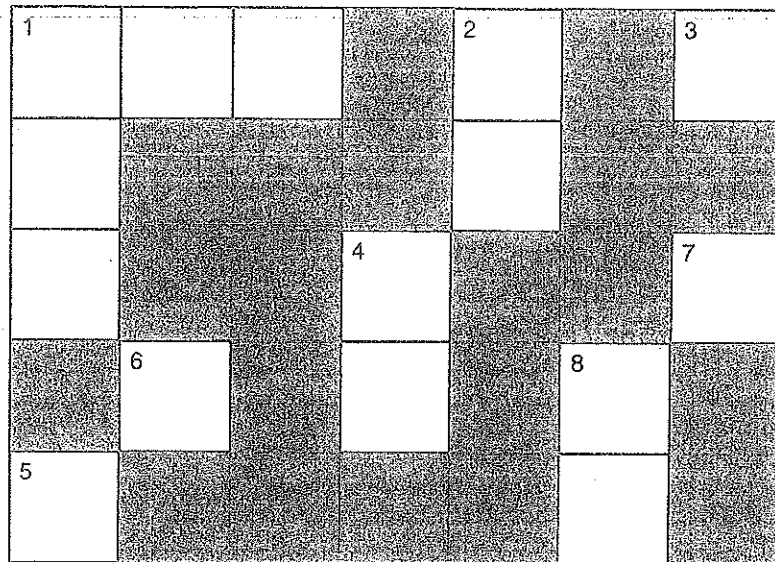
5. Anna is having a party. She needs 15 invitations. The invitations come in packages of 7. How many packages of invitations does Anna need to buy?
6. Steve is decorating for a party. He wants to have 2 blue balloons and 1 yellow balloon in each corner of a square room. How many balloons does Steve need?

7.  Explain how you solved Problem 2.

Name _____

Multiplication Puzzle

Find the unknown factors and products. Then use your answers to complete the puzzle.



Across

1. $2 \times 70 = \square$

$\square = \underline{\hspace{2cm}}$

2. $80 \times a = 240$

$a = \underline{\hspace{2cm}}$

3. $b \times 80 = 720$

$b = \underline{\hspace{2cm}}$

5. $60 \times c = 420$

$c = \underline{\hspace{2cm}}$

7. $d \times 90 = 0$

$d = \underline{\hspace{2cm}}$

Down

1. $2 \times 80 = \square$

$\square = \underline{\hspace{2cm}}$

2. $p \times 1 = 30$

$p = \underline{\hspace{2cm}}$

4. $8 \times q = 560$

$q = \underline{\hspace{2cm}}$

6. $90 \times r = 360$

$r = \underline{\hspace{2cm}}$

8. $s \times 9 = 810$

$s = \underline{\hspace{2cm}}$

Name _____

Modeling Problems

Model the problem to solve.

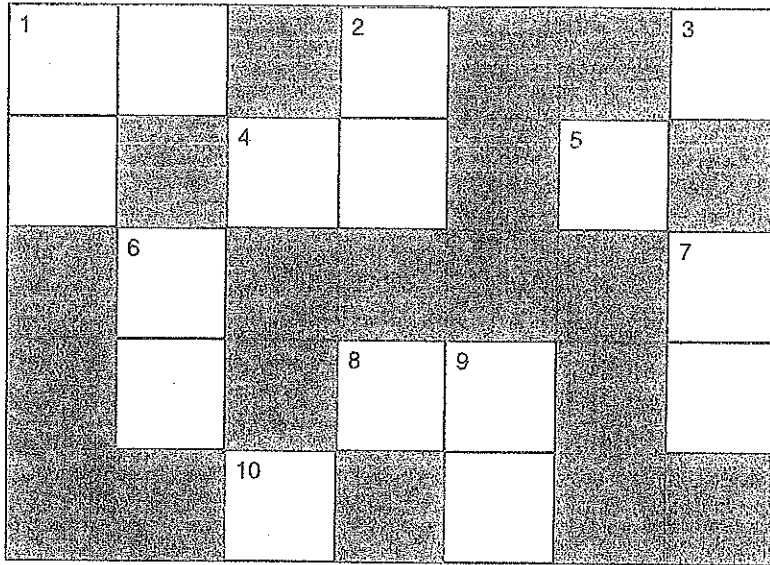
1. Gina needs to make 4 centerpieces with the same number of flowers in each centerpiece for the tables at her party. She bought 32 flowers to use. How many flowers will be in each centerpiece?
2. Gina bought 18 balloons. If she makes 3 equal groups of balloons, how many balloons will be in each group?

3. Gina bought 24 plates. If she stacks them in groups of 8, how many stacks of plates will she make?
4. There will be a total of 20 people at the party. There are 4 tables. If Gina wants an equal number of people at each table, how many chairs should she set at each table?

5. **Stretch Your Thinking** Find three more ways Gina could stack 24 plates into equal stacks, with at least 3 plates in a stack. Tell the number of stacks and how many would be in each stack.

Division Puzzle

Find the unknown dividends and quotients. Then use your answers to fill in the puzzle.




Across

1. $60 \div 6 = \underline{\quad}$
2. $6 \div 6 = \underline{\quad}$
3. $24 \div 6 = \underline{\quad}$
4. $\underline{\quad} \div 4 = 12 - 3$
5. $42 \div 6 = \underline{\quad}$
8. $\underline{\quad} \div 6 = 9$
10. $12 \div 6 = \underline{\quad}$

Down

1. $\underline{\quad} \div 2 = 4 + 5$
2. $\underline{\quad} \div 4 = 8 \div 2$
4. $18 \div 6 = \underline{\quad}$
6. $\underline{\quad} \div 4 = 2 \times 4$
7. $\underline{\quad} \div 6 = 5$
9. $\underline{\quad} \div 6 = 8$

11.  Write Math How did you find the dividend for 9 Down?

Name _____

Order of Operations

Danny buys a marker for \$4. He also buys 5 pens for \$2 each. How much money does he spend?

You can write $\$4 + 5 \times \$2 = c$ to describe and solve the problem.

Find $\$4 + 5 \times \$2 = c$.

When there is more than one type of operation in a problem, use the **order of operations**, or the set of rules for the order in which to do operations.

Order of Operations

First: Multiply and divide from left to right.
Then: Add and subtract from left to right.

Step 1 Multiply from left to right.

$$\begin{array}{c} \$4 + 5 \times \$2 = c \\ \underbrace{} \\ \uparrow \\ \text{multiply} \\ \$4 + \$10 = c \end{array}$$

Step 2 Next, add from left to right.

$$\begin{array}{c} \$4 + \$10 = c \\ \underbrace{} \\ \uparrow \\ \text{add} \\ \$14 = c \end{array}$$

So, Danny spends \$14.

Write *correct* if the operations are listed in the correct order. If not correct, write the correct order of operations.

1. $5 + 6 \times 3$ add, multiply

2. $20 \div 4 - 3$ divide, subtract

Follow the order of operations to find the unknown number.

3. $9 - 7 + 2 = k$

4. $8 + 2 \times 5 = m$

5. $7 \times 8 - 6 = g$

$k = \underline{\hspace{2cm}}$

$m = \underline{\hspace{2cm}}$

$g = \underline{\hspace{2cm}}$

6. $16 + 4 \div 2 = s$

7. $12 - 6 \div 2 = y$

8. $36 \div 6 + 13 = f$

$s = \underline{\hspace{2cm}}$

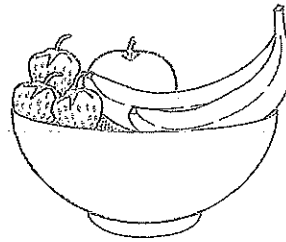
$y = \underline{\hspace{2cm}}$

$f = \underline{\hspace{2cm}}$

Name _____

Fruit Fractions

Use the bowl of fruit to answer the questions.
The bowl has 3 strawberries, 2 bananas,
and 1 apple.



1. What fraction of the fruit in the bowl is bananas?

2. What fraction of the fruit in the bowl is apples?

3. What fraction of the fruit in the bowl is strawberries?

4. What fraction of the fruit in the bowl is bananas and strawberries?

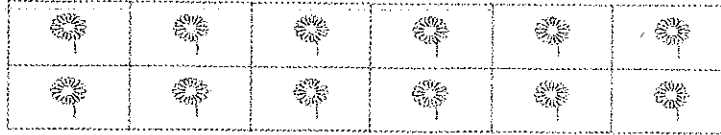
5. **Stretch Your Thinking** Suppose 2 oranges are hidden under the fruit you can see in the bowl. What fraction of the fruit is oranges?

6. **Write Math** Write your own problem about fractions of a group. Use the fruit in the bowl. Then write the answer.

Name _____

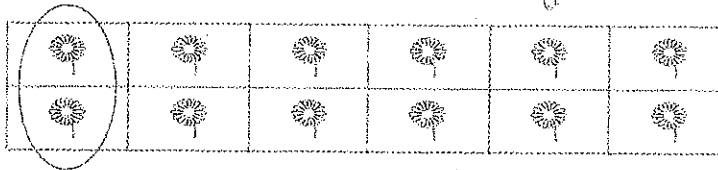
Find Part of a Group Using Unit Fractions

Lauren bought 12 stamps for postcards. She gave Brianna $\frac{1}{6}$ of them.
How many stamps did Lauren give to Brianna?



Step 1 Find the total number of stamps. 12 stamps

Step 2 Since you want to find $\frac{1}{6}$ of the group, there should be 6 equal groups. Circle one of the groups to show $\frac{1}{6}$.



Step 3 Find $\frac{1}{6}$ of the stamps. How many stamps are in 1 group? 2 stamps

So, Lauren gave Brianna 2 stamps. $\frac{1}{6}$ of 12 = 2

Circle equal groups to solve. Count the number of shapes in 1 group.

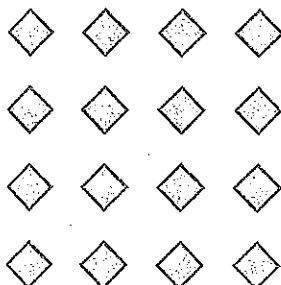
1. $\frac{1}{4}$ of 8 = _____



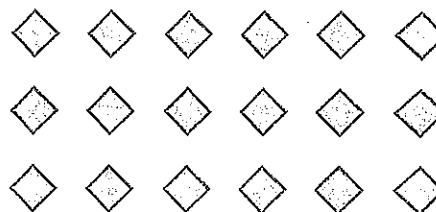
2. $\frac{1}{3}$ of 9 = _____



3. $\frac{1}{4}$ of 16 = _____



4. $\frac{1}{6}$ of 18 = _____



Name _____

Compare Fractions with the Same Numerator

Ryan takes a survey of his class. $\frac{1}{8}$ of the class has dogs, and $\frac{1}{3}$ of the class has cats. Are there more dog owners or cat owners in Ryan's class?

Compare the fractions. $\frac{1}{8} \bigcirc \frac{1}{3}$

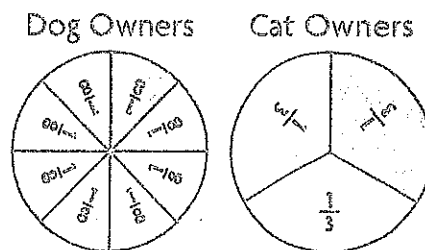
Step 1 Divide the first circle into 8 equal parts. Shade $\frac{1}{8}$ of the circle to show dog owners.

Step 2 Divide the second circle into 3 equal parts. Shade $\frac{1}{3}$ of the circle to show cat owners.

Step 3 Compare the shaded parts of the circles. Which shaded part is larger?

$\frac{1}{3}$ is larger than $\frac{1}{8}$. $\frac{1}{8} < \frac{1}{3}$

So, there are more cat owners than dog owners in Ryan's class.



Compare. Write $<$, $>$, or $=$.

1. $\frac{3}{4} \bigcirc \frac{3}{6}$

2. $\frac{1}{8} \bigcirc \frac{1}{6}$

3. $\frac{2}{4} \bigcirc \frac{2}{6}$

4. $\frac{2}{3} \bigcirc \frac{2}{6}$

5. $\frac{4}{6} \bigcirc \frac{4}{8}$

6. $\frac{2}{8} \bigcirc \frac{2}{4}$

7. $\frac{5}{6} \bigcirc \frac{5}{8}$

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

9. $\frac{3}{6} \bigcirc \frac{3}{4}$

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

11. $\frac{3}{3} \bigcirc \frac{3}{4}$

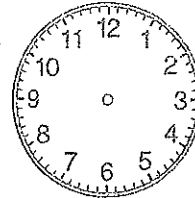
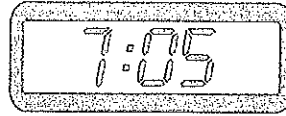
12. $\frac{2}{8} \bigcirc \frac{2}{6}$

Name _____

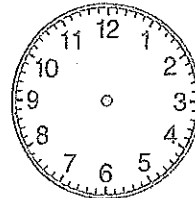
Time Tester

Solve the problem using the digital clock shown. Then use the analog clock at the right of the digital clock to show your answer.

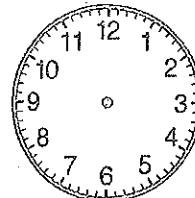
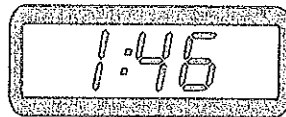
1. Andy ate breakfast when his clock had the time shown. The clock stopped 12 minutes before breakfast. What time did Andy eat breakfast?



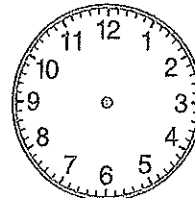
2. Tyler left math class 23 minutes before the time shown. What time did Tyler leave math class?



3. Larry knows he has recess 14 minutes after the time shown. What time does Larry have recess?



4. **Stretch Your Thinking** Renee arrived at school at the time shown. The clock at school was 4 minutes fast. What time was shown on the clock at school when Renee arrived?

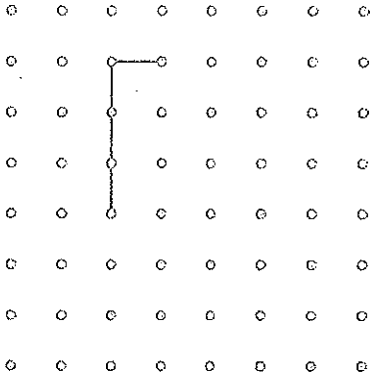


Name _____

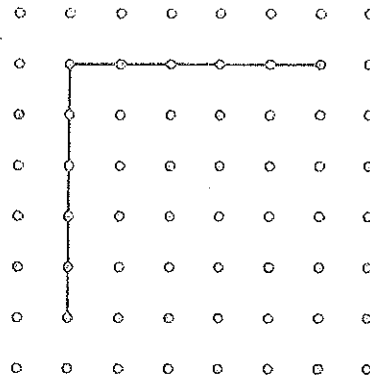
Connect the Dots to Show the Area

On each piece of dot paper below, a figure has been started.
Use the area to complete the figure by connecting the dots.
Connect the dots to complete the figure with the given area.

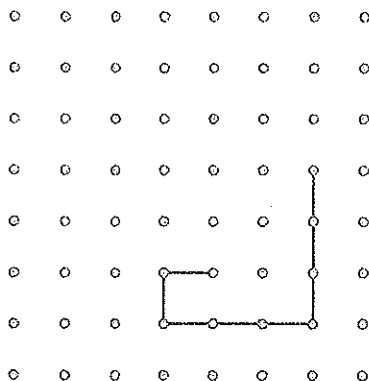
1. Area = 11 square units



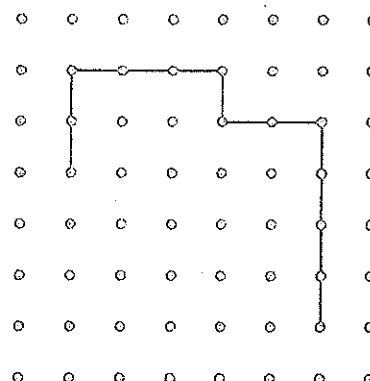
2. Area = 15 square units



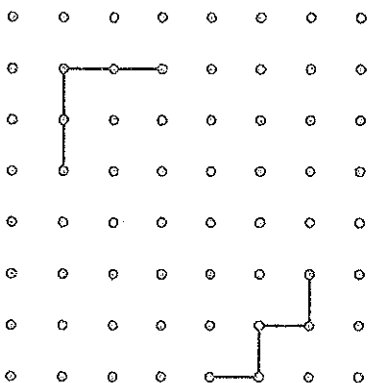
3. Area = 16 square units



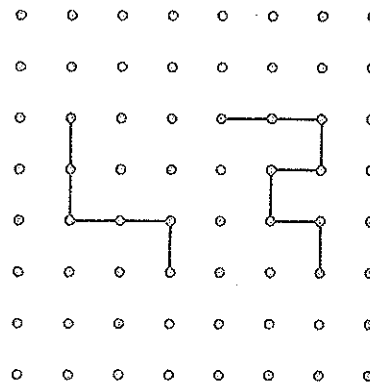
4. Area = 11 square units



5. Area = 13 square units



6. Area = 11 square units



Name _____

Area and Perimeter Match-Up

Read the description. Write the letter of any figure that matches the description. More than one figure may match a description.

Description

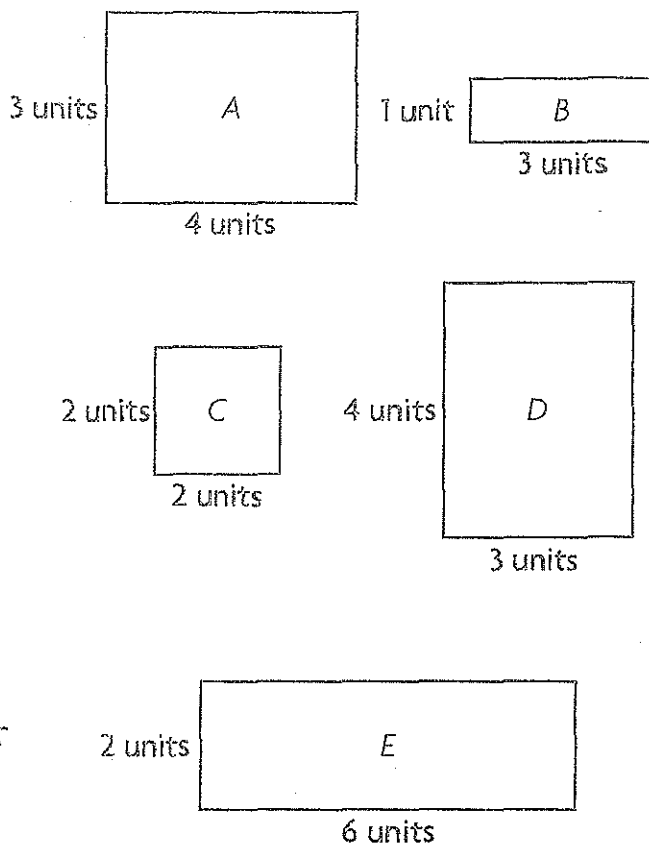
Figures

1. a rectangle with a perimeter of 16 units

2. a four-sided figure with an area of 4 square units

3. a four-sided figure with an area of 12 square units

4. a four-sided figure with a perimeter of 8 units

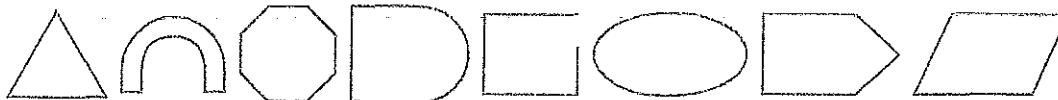


5. **Stretch Your Thinking** A four-sided figure is made from 24 unit squares. Using whole numbers, what is the smallest possible perimeter? Using whole numbers, what are the side lengths of the rectangle with the smallest perimeter?

Name _____

Name That Polygon

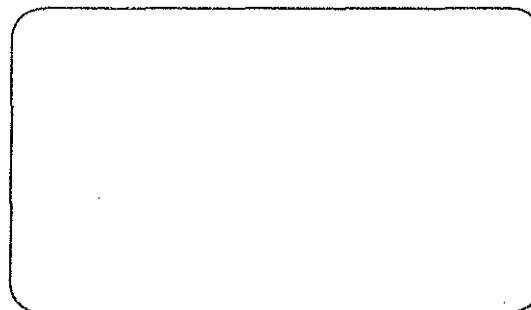
Sort and draw the shapes into two groups: shapes that are polygons and shapes that are not polygons.



Polygons	Not Polygons

1. Name the polygons above.

2. Draw a polygon that has six sides.



3. **Write Math** Can you draw a triangle that has 4 angles?
Explain.

Name _____

Quadrilateral Riddles

Read the riddles and name the shape that is being described.

1. I am a quadrilateral with exactly 1 pair of opposite sides that are parallel. What shape am I?

2. I am a quadrilateral that always has 4 sides that are of equal length and 4 right angles. What shape am I?

3. I am a quadrilateral with 2 pairs of opposite sides that are parallel, 2 pairs of sides that are of equal length, and 4 right angles. I am not a square. What shape am I?

4. I am a polygon with 4 sides and 4 angles. I do not have any pairs of opposite sides that are parallel. What shape am I?

5. **Wise Math** Jerome drew a shape and described it as a square. Kayla described it as a rectangle. Luis described it as a rhombus. Can they all be correct? Explain.
