

Summer Packet for Third Grade Students

Mathematics

Please complete and return to your teacher on the first day of school.

Name _____

Name _____

Explore Regrouping in Addition

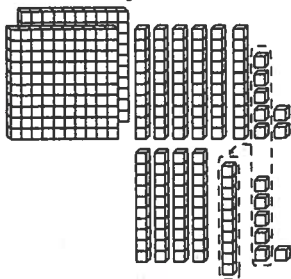
R 2-4
RETEACH

You can use models to add.

Add $267 + 46$.

Step 1

Add the ones. Regroup if necessary.

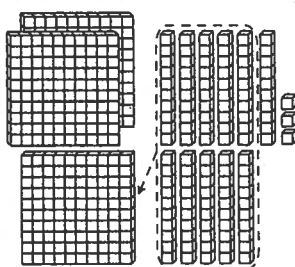


$$\begin{array}{r} 1 \\ 267 \\ + 46 \\ \hline 3 \end{array}$$

Think: 13 ones = 1 ten 3 ones

Step 2

Add the tens. Regroup if necessary.

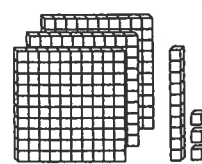


$$\begin{array}{r} 11 \\ 267 \\ + 46 \\ \hline 13 \end{array}$$

Think: 11 tens = 1 hundred 1 ten

Step 3

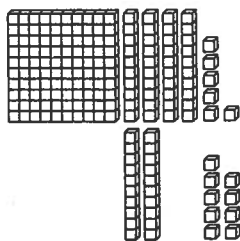
Add the hundreds. Regroup if necessary.



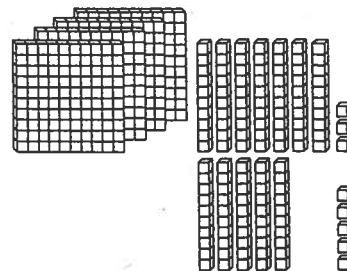
$$\begin{array}{r} 11 \\ 267 \\ + 46 \\ \hline 313 \end{array}$$

Find each sum. Circle the models to show the regrouping.

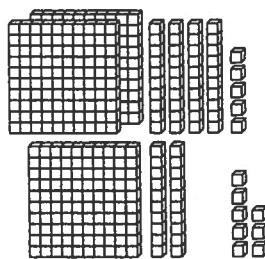
1. $\begin{array}{r} 1 \\ 146 \\ + 29 \\ \hline 5 \end{array}$



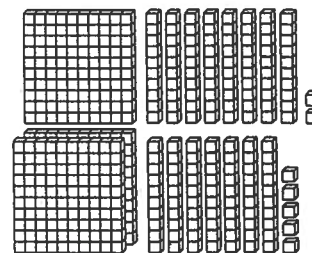
2. $\begin{array}{r} 473 \\ + 55 \\ \hline \end{array}$



3. $\begin{array}{r} 245 \\ + 128 \\ \hline \end{array}$



4. $\begin{array}{r} 182 \\ + 275 \\ \hline \end{array}$



Find each sum. You may use models.

5. $\begin{array}{r} 36 \\ + 84 \\ \hline \end{array}$

6. $\begin{array}{r} 95 \\ + 18 \\ \hline \end{array}$

7. $\begin{array}{r} 674 \\ + 57 \\ \hline \end{array}$

8. $\begin{array}{r} 923 \\ + 69 \\ \hline \end{array}$

9. $\begin{array}{r} 653 \\ + 187 \\ \hline \end{array}$

10. $29 + 61 = \underline{\hspace{2cm}}$

11. $153 + 28 = \underline{\hspace{2cm}}$

12. $256 + 190 = \underline{\hspace{2cm}}$

13. $731 + 137 = \underline{\hspace{2cm}}$







SUBTRACTION

(4-DIGIT)



1. Draw a line to the correct answer for each subtraction problem.

$4,233$	$5,000$	$3,610$	$4,729$	$1,736$	$4,002$
$- 2,657$	$- 2,764$	$- 819$	$- 2,893$	$- 1,252$	$- 2,639$
_____	_____	_____	_____	_____	_____

 $2,236$	 $1,836$	 $1,576$	 $1,363$	 $2,791$	 484
---	---	---	---	---	---

2. Which number belongs in all of the empty boxes below?

$4,083$	$2,600$	$3,262$
$- 2,589$	$- 1,106$	$- 1,768$
_____	_____	_____

- A. 1,504 B. 1,494
C. 1,506 D. 1,404

3. How many more people ate hamburgers than hot dogs?

Food Eaten at Green Grass Campsite	
Hamburgers	3,764
BBQ Chicken	1,849
Hot Dogs	2,117



4. Michael estimated the problem below. Did he do it correctly?

$4,763$	\rightarrow	$4,000$
$- 2,328$	\rightarrow	$- 2,000$
_____		$2,000$

YES OR NO

5. Solve the subtraction problem by drawing a model.

$2,368 - 1,429 =$ _____

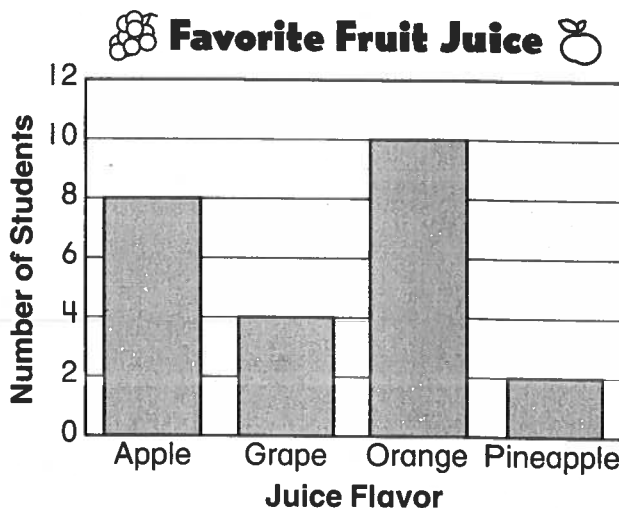
Explore Bar Graphs

Mark took a survey of some third grade students to find out which flavor of juice they liked best. He showed the results in a chart. Then Mark used the chart to make a bar graph.

A **bar graph** is a graph that shows data using bars. The **scale** along one side of the bar graph is a set of equally spaced marks to tell how many.

The first bar in the graph tells you that 8 students like apple juice.

Favorite Fruit Juice	
Juice	Number of Students
Apple	8
Grape	4
Orange	10
Pineapple	2



Use the data in the bar graph to answer the questions.

- How many students like grape juice?

- Which juice flavor is the students' least favorite?

- How many more students like orange juice than pineapple juice?

- Which two juice flavors do the students like the best?

- Which juice flavor did the students like the most? How can you tell?

- How many students were in this survey? How do you know?

Relate Multiplication and Addition



Find each total. Write an addition sentence and a multiplication sentence.





Multiply.

- | | | |
|-------------------------|--------------------------|--------------------------|
| 3. $4 \times 6 =$ _____ | 4. $2 \times 9 =$ _____ | 5. $3 \times 7 =$ _____ |
| 6. $6 \times 4 =$ _____ | 7. $8 \times 3 =$ _____ | 8. $5 \times 5 =$ _____ |
| 9. $2 \times 8 =$ _____ | 10. $6 \times 2 =$ _____ | 11. $3 \times 9 =$ _____ |

Algebra & Functions Describe and complete each skip counting pattern.

- | | | |
|--------------------------|-----------------------|-------------------------|
| 12. 5, 10, 15, 20, _____ | 13. 2, 4, 6, 8, _____ | 14. 4, 8, 12, 16, _____ |
| _____ | _____ | _____ |

Problem Solving

15. Jason collects cans of food for a charity drive. If he can collect 5 cans in one week, how many cans can he collect in 7 weeks?

16. Omar collected 8 cans of food on Monday, 8 cans of food on Tuesday, and 8 cans of food on Thursday. How many cans of food did he collect altogether?

Division as Repeated Subtraction



Cal put 18 astronaut collector's cards in a scrapbook. He put 6 cards on each page. How many pages did Cal use?

Find $18 \div 6$.

You can use repeated subtraction.

$$\begin{array}{r} 18 \\ - 6 \\ \hline 12 \\ - 6 \\ \hline 6 \\ - 6 \\ \hline 0 \end{array}$$

Keep subtracting the same number until there is nothing left. Since the 6 was subtracted 3 times, $18 \div 6 = 3$.

Complete. Subtract to find the answer.

1. $12 \div 4 = \underline{\quad}$

$$\begin{array}{r} 12 \\ - 4 \\ \hline \square \end{array}$$

$$\begin{array}{r} - 4 \\ \hline \square \end{array}$$

$$\begin{array}{r} - 4 \\ \hline \square \end{array}$$

2. $20 \div 5 = \underline{\quad}$

$$\begin{array}{r} 20 \\ - 5 \\ \hline \square \end{array}$$

$$\begin{array}{r} - 5 \\ \hline \square \end{array}$$

$$\begin{array}{r} - 5 \\ \hline \square \end{array}$$

$$\begin{array}{r} - 5 \\ \hline \square \end{array}$$

3. $21 \div 7 = \underline{\quad}$

$$\begin{array}{r} 21 \\ - 7 \\ \hline \square \end{array}$$

$$\begin{array}{r} - 7 \\ \hline \square \end{array}$$

$$\begin{array}{r} - 7 \\ \hline \square \end{array}$$

Find the answer. Use repeated subtraction or division.

4. $8 \div 2 = \underline{\quad}$

5. $6 \div 3 = \underline{\quad}$

6. $10 \div 5 = \underline{\quad}$

7. $12 \div 6 = \underline{\quad}$

8. $14 \div 7 = \underline{\quad}$

9. $20 \div 4 = \underline{\quad}$

10. $18 \div 3 = \underline{\quad}$

11. $24 \div 6 = \underline{\quad}$

12. $28 \div 7 = \underline{\quad}$

13. $30 \div 6 = \underline{\quad}$

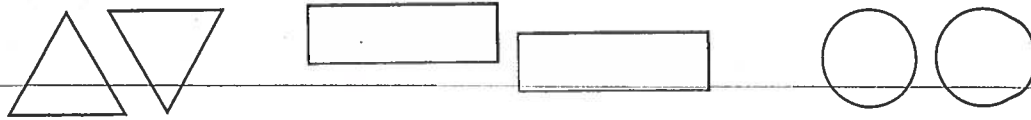
14. $8 \div 8 = \underline{\quad}$

15. $18 \div 3 = \underline{\quad}$

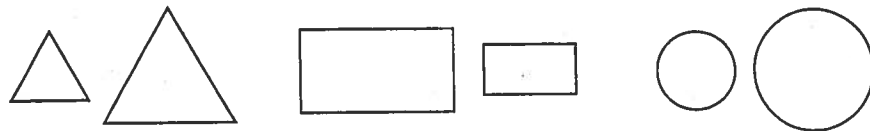
Name _____

Congruent and Similar Figures

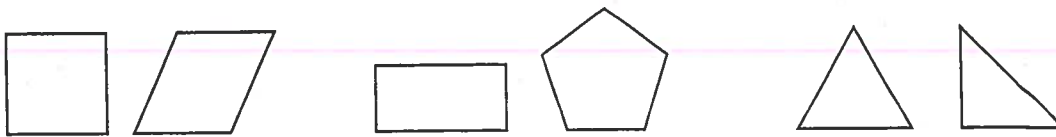
Congruent figures have the same size and shape. One way to tell if figures are congruent is to put one on top of the other. If they fit, they are congruent.



Similar figures have the same shape, but may not have the same size.

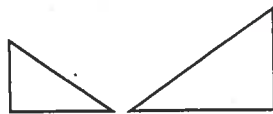


The figures below are *not* similar or congruent.



Look at each figure. Then read the description. Write whether the figures are similar. Write whether the figures are congruent.

1.



The figures have the same shape but not the same size.
They are _____.

2.



The figures have the same shape and size. They are _____.

Write whether the figures are similar.
Write whether the figures are congruent.

3.



4.



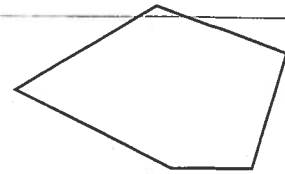
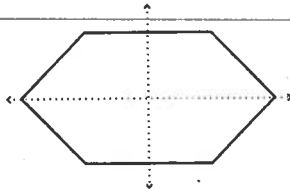
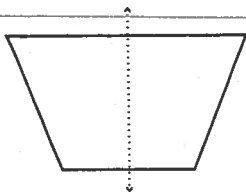
Name _____

Explore Symmetry



You can fold some figures along a line of symmetry so that the two parts match exactly. These figures are symmetrical. A figure can have more than 1 line of symmetry.

1 line of symmetry **more than 1 line of symmetry** **no lines of symmetry**



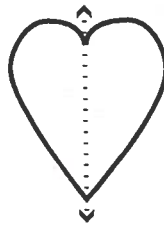
You can use pattern blocks to help you decide whether a figure is symmetrical. Trace the pattern block on a sheet of paper. Cut out the figure, and then fold it in half. Do the two sides match exactly?

For exercises 1–3, trace the figures on another sheet of paper. Cut out each figure. Fold along the line shown. Is it a line of symmetry? Write *yes* or *no* to tell if each line is a line of symmetry.

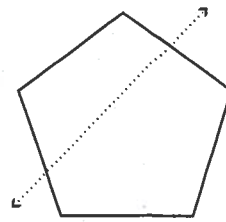
1.



2.

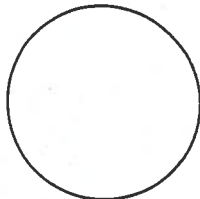


3.

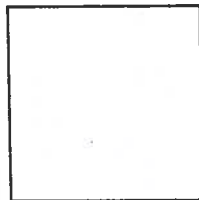


For exercises 4–6, trace the figures on another sheet of paper. Cut out each figure. Fold it in half. Mark the line of symmetry along the fold line.

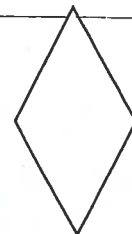
4.



5.



6.



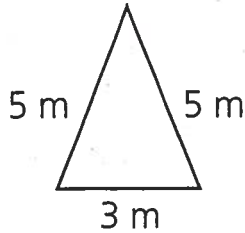
Name _____

Perimeter



The perimeter is the distance around an object or a shape.
To find perimeter, add the lengths of the sides.

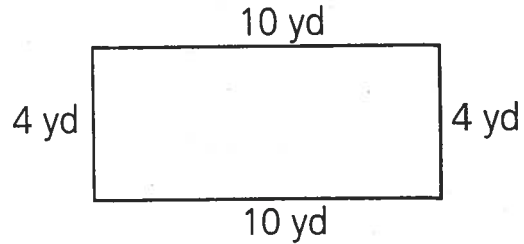
To find the perimeter of this triangle, add the lengths of the 3 sides.



$$5 + 5 + 3 = 13$$

The perimeter of the triangle is 13 m.

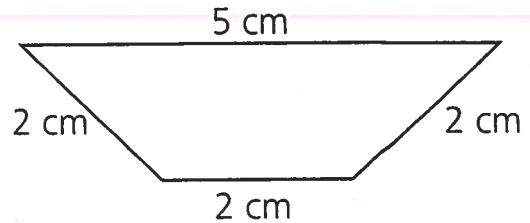
To find the perimeter of this rectangle, add the lengths of the 4 sides.



$$10 + 4 + 10 + 4 = 28$$

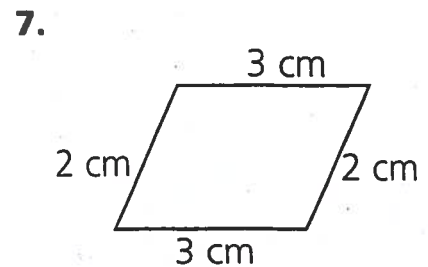
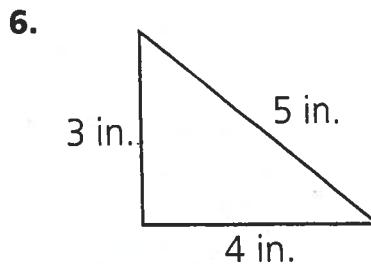
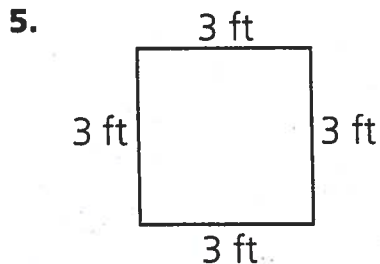
The perimeter of the rectangle is 28 yd.

Complete the sentences about the trapezoid.



1. The trapezoid has _____ sides.
2. To find the perimeter of the trapezoid, I must _____ the lengths of the sides.
3. The lengths of its sides are _____, _____, _____, and _____.
4. Find the perimeter. $2\text{ cm} + 2\text{ cm} + 2\text{ cm} + 5\text{ cm} = \underline{\hspace{2cm}}\text{ cm}$

Find the perimeter.

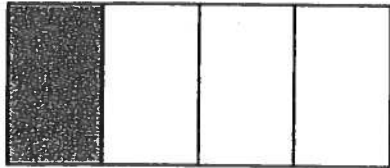


Name _____

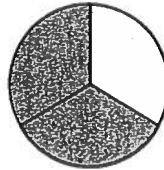
Part of a Whole



A fraction can name part of a whole. To write a fraction, each part of the whole must be the same size.



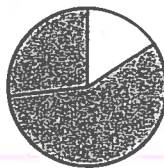
1 part shaded
4 parts in all
 $\frac{1}{4}$ is shaded.



2 parts shaded
3 parts in all
 $\frac{2}{3}$ is shaded.

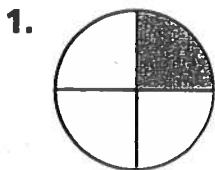


4 unequal parts
You cannot write a fraction.

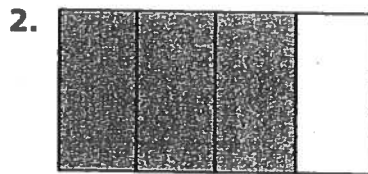


3 unequal parts
You cannot write a fraction.

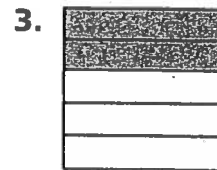
Complete.



_____ part shaded
_____ parts in all
fraction _____



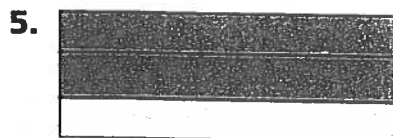
_____ parts shaded
_____ parts in all
fraction _____

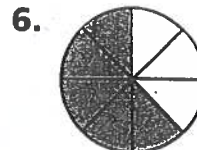


_____ parts shaded
_____ parts in all
fraction _____

Tell if the figure shows equal parts.
If yes, write the part for the fraction that is shaded.







Summer Reading

During the summer, the students will be required to read and record their books on their Reading Logs, like they did all year. The attached papers contain two logs-one for July and one for August. They must have 20 entries on each log and must read at least 20 minutes a night. It is the same system that we used all year regarding the Reading Logs. This will be the only assignments that they will be required to do over the summer for ELA. They must be brought in and given to their homeroom teacher the first week of school.

Have a wonderful Summer!!!

