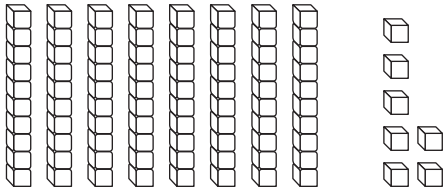
Name _____

Algebra • Ways to Expand Numbers

Essential Question How can you write a two-digit number in different ways?

Model and Draw

There are different ways to think about a number.



8 tens and 7 ones is the same as 80 plus 7.

8 tens 7 ones

80 + 7

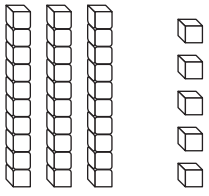
87

Share and Show

Math Board

Write how many tens and ones.
Write the number in two different ways.

1.

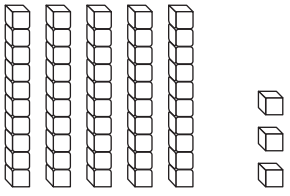


____ tens ____ ones

____ + ____

____

2.



____ tens ____ ones

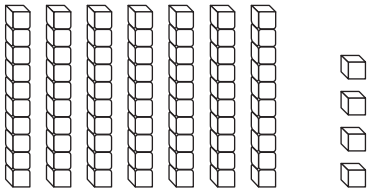
____ + ____

____

Math Talk Does the 7 in this number show 7 or 70? Explain.

On Your Own

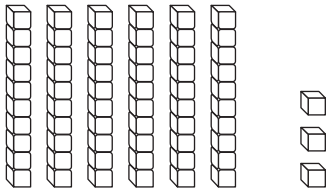
Write how many tens and ones.
Write the number in two different ways.

3. 

____ tens ____ ones

____ + ____

____

4. 

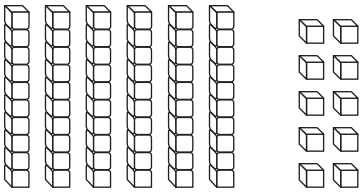
____ tens ____ ones

____ + ____

____

PROBLEM SOLVING

5. Draw the same number using only tens.
Write how many tens and ones.
Write the number in two different ways.



____ tens ____ ones

____ + ____

____

____ tens ____ ones

____ + ____

____

TAKE HOME ACTIVITY • Write a two-digit number to 99. Ask your child to write how many tens and ones and then write the number a different way.

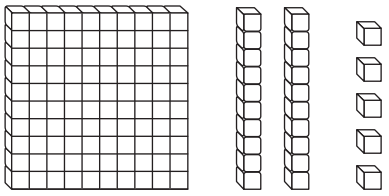
Name _____

Identify Place Value

Essential Question How can you use place value to understand the value of a number?

Model and Draw

The **1** in **1**25 means 1 hundred.
The **2** in 1**2**5 means 2 tens.
The **5** in 12**5** means 5 ones.

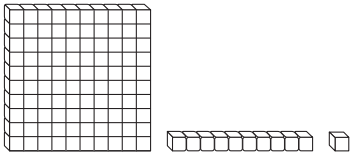


125

Draw ▢ for 
Draw | for
Draw ◦ for ▫

hundreds	tens	ones
1	2	5

Share and Show

Use your MathBoard and  to show the number.
Draw to complete the quick picture. Write how many hundreds, tens, and ones.

THINK
106 has no tens.

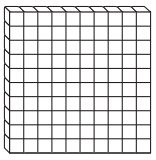
1.

106

hundreds	tens	ones
____	____	____

Math Talk How is the 1 in 187 different from the 1 in 781?

On Your Own

Use your MathBoard and   .
Draw to complete the quick picture.
Write how many hundreds, tens, and ones.

2. 170

hundreds	tens	ones
____	____	____

3. 143

hundreds	tens	ones
____	____	____

4. 121

hundreds	tens	ones
____	____	____

PROBLEM SOLVING

Circle your answer.

5. I have 1 hundred, 9 tens, and 9 ones. What number am I?

99 100 199

6. I have 3 ones, 0 tens, and 1 hundred. What number am I?

107 170 103

TAKE HOME ACTIVITY • **Write some numbers from 100 to 199. Have your child tell how many hundreds, tens, and ones are in the number.**

Name _____

Use Place Value to Compare Numbers

Essential Question How can you use place value to compare two numbers?

Model and Draw

I want to eat the greater number.

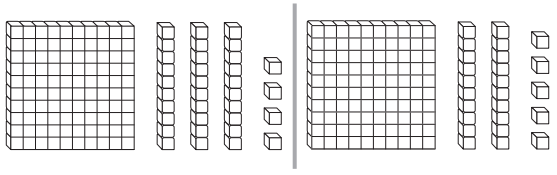
Use these symbols to compare numbers.

> is greater than
< is less than
= is equal to

45  **46**

45 < 46
45 is less than 46.

Compare 134 and 125.



First compare hundreds.
One hundred is equal to one hundred.

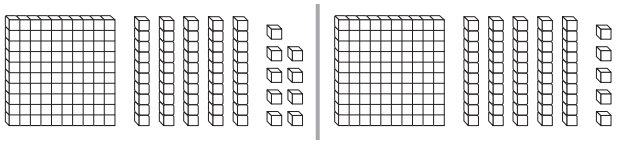
100 = 100

If the hundreds are equal, compare the tens. 30 is greater than 20.

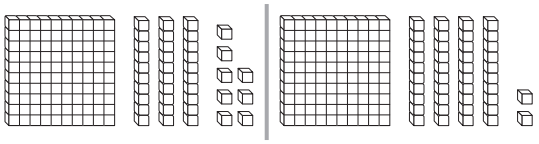
134 > 125

Share and Show

Write the numbers and compare. Write >, <, or =.

1. 

159 > 155

2. 

___ ◯ ___

Compare the numbers using >, <, or =.

3. 187 ◯ 168

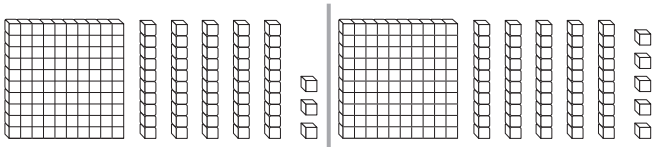
4. 165 ◯ 159

5. 127 ◯ 141

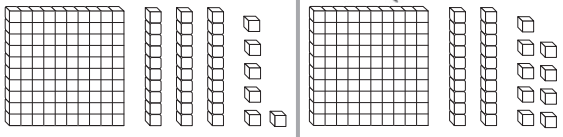
Math Talk Compare 173 and 177. Did you have to compare all the digits? Why or why not?

On Your Own

Write the numbers. Compare. Write >, <, or =.

6. 

___ ◯ ___

7. 

___ ◯ ___

Compare the numbers using >, <, or =.

8. 143 ◯ 143	**9.** 162 ◯ 157	**10.** 185 ◯ 188
11. 124 ◯ 129	**12.** 189 ◯ 195	**13.** 135 ◯ 135
14. 173 ◯ 164	**15.** 123 ◯ 117	**16.** 118 ◯ 131
17. 155 ◯ 145	**18.** 181 ◯ 181	**19.** 192 ◯ 179
20. 122 ◯ 129	**21.** 166 ◯ 177	**22.** 154 ◯ 154

PROBLEM SOLVING REAL WORLD

23. Antonio is thinking of a number between 100 and 199. It has 1 hundred, 3 tens, and 6 ones. Kim is thinking of a number between 100 and 199. It has 1 hundred, 6 tens, and 3 ones. Who is thinking of a greater number?

Draw or write to explain.

_____ is thinking of a greater number.

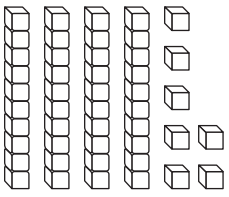
TAKE HOME ACTIVITY • Choose two numbers between 100 and 199 and have your child explain which number is greater.

Name _____

Checkpoint

Concepts and Skills

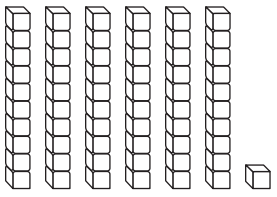
Write how many tens and ones.
Write the number in two ways.

1. 

____ tens and ____ ones

____ + ____

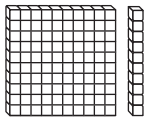
____

2. 

____ tens and ____ one

____ + ____

____

Use your MathBoard and  .
Draw to complete the quick picture.
Write how many hundreds, tens, and ones.

3. 154

hundreds	tens	ones
____	____	____

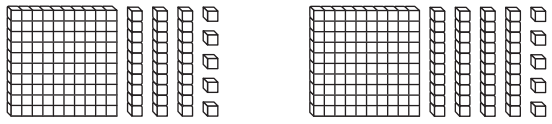
4. 128

hundreds	tens	ones
____	____	____

Write the numbers and compare. Write $>$, $<$, or $=$.

5. 

___ ◯ ___

6. 

___ ◯ ___

Compare the numbers using $>$, $<$, or $=$.

7. 175 ◯ 175

8. 163 ◯ 173

9. 189 ◯ 188

10. 142 ◯ 158

11. 157 ◯ 157

12. 185 ◯ 180

13. Which comparison is correct?

- ○ $132 > 131$
- ○ $131 = 132$
- ○ $131 > 132$

Name _____

Algebra • Addition Function Tables

Essential Question How can you follow a rule to complete an addition function table?

Model and Draw

The rule is Add 9. Add 9 to each number.

Add 9	
7	16
8	17
9	18

Share and Show

Math Board

Follow a rule to complete the table.

1.

Add 3	
7	
8	
9	

2.

Add 4	
6	
7	
8	

3.

Add 5	
5	
7	
9	

4.

Add 8	
5	
7	
9	

5.

Add 7	
6	
8	
9	

6.

Add 6	
6	
8	
9	

Math Talk Look at Exercise 4. How does the rule help you see a pattern?

On Your Own

Follow a rule to complete the table.

7.

Add 7	
7	
8	
9	

8.

Add 4	
7	
8	
9	

9.

Add 5	
7	
8	
9	

10.

Add 8	
4	
6	
8	
9	

11.

Add 3	
3	
5	
7	
9	

12.

Add 6	
6	
7	
8	
9	

PROBLEM SOLVING REAL WORLD

13. Solve. Complete the table.

Tom is 8 years old.
Julie is 7 years old.
Carla is 4 years old.

How old will each child be in 4 years?

Tom	8	
Julie	7	
Carla	4	

TAKE HOME ACTIVITY • Copy Exercise 12 and change the numbers in the left column to 9, 7, 5, and 3. Have your child complete the table and explain how he or she used a rule to solve the problem.

Name _____

Algebra • Subtraction Function Tables

Essential Question How can you follow a rule to complete a subtraction function table?

Model and Draw

The rule is Subtract 7. Subtract 7 from each number.

Subtract 7	
14	7
15	8
16	9

Share and Show

Follow a rule to complete the table.

1.

Subtract 3	
9	
10	
11	

2.

Subtract 4	
6	
8	
10	

3.

Subtract 5	
6	
8	
10	

4.

Subtract 8	
9	
11	
13	

5.

Subtract 7	
12	
13	
14	

6.

Subtract 6	
6	
8	
9	

Math Talk How can Exercise 2 help you solve Exercise 3?

On Your Own

Follow a rule to complete the table.

7.

Subtract 4	
11	
12	
13	

8.

Subtract 6	
7	
8	
9	

9.

Subtract 5	
7	
8	
9	

10.

Subtract 7	
13	
14	
15	
16	

11.

Subtract 8	
12	
14	
16	
17	

12.

Subtract 9	
12	
14	
16	
17	

PROBLEM SOLVING REAL WORLD

13. Solve. Complete the table.

Jane has 4 cookies.
Lucy has 3 cookies.
Seamus has 2 cookies.

How many cookies will each child have if they each eat 2 cookies?

Jane	4	
Lucy	3	
Seamus	2	

TAKE HOME ACTIVITY • Copy Exercise 12 and change the numbers in the left column to 10, 11, 12, and 13. Have your child complete the table and explain how he or she used a rule to solve the problem.

Name _____

Algebra • Follow the Rule

Essential Question How can you follow a rule to complete an addition or subtraction function table?

Model and Draw

The rule for some tables is to add. For other tables the rule is to subtract.

Add 1	
2	3
4	
6	
8	

Subtract 1	
2	1
4	
6	
8	

Share and Show

Follow a rule to complete the table.

1.

Add 2	
10	
9	
8	
7	

2.

Subtract 2	
10	
9	
8	
7	

3.

Subtract 1	
3	
4	
7	
9	

Math Talk What is the rule for the pattern in Exercise 1?

On Your Own

Follow a rule to complete the table.

4.

Add 5	
7	
8	
9	
10	

5.

Subtract 5	
7	
8	
9	
10	

6.

Subtract 1	
8	
9	
11	
13	

7.

Subtract 3	
5	
7	
9	
11	

8.

Add 4	
6	
7	
8	
9	

9.

Add 6	
9	
8	
7	
6	

PROBLEM SOLVING

10. Find the rule. Complete the table.

3	
	8
7	10
	12

TAKE HOME ACTIVITY • Copy the table for Exercise 9. Change the rule to Subtract 3. Have your child complete the table.

Name _____

Add 3 Numbers

Essential Question How can you choose a strategy to help add 3 numbers?

Model and Draw

When you add 3 numbers, you can add in any order. Using a strategy can help.

Make a 10.

$$\begin{array}{r} 2 \\ 6 \\ +\ 8 \\ \hline 16 \end{array} \quad \begin{array}{r} 10 \\ +\ 6 \end{array}$$

Use **doubles.**

$$\begin{array}{r} 8 \\ 8 \\ +\ 4 \\ \hline 20 \end{array} \quad \begin{array}{r} 16 \\ +\ 4 \end{array}$$

Use **count on.**

$$\begin{array}{r} 6 \\ 8 \\ +\ 3 \\ \hline 17 \end{array} \quad \begin{array}{r} 9 \\ +\ 8 \end{array}$$

Share and Show

Use strategies to find the sums. Circle any strategy you use.

1.

$$\begin{array}{r} 4 \\ 7 \\ +\ 7 \\ \hline \end{array}$$

make a 10
doubles
count on

2.

$$\begin{array}{r} 9 \\ 8 \\ +\ 1 \\ \hline \end{array}$$

make a 10
doubles
count on

3.

$$\begin{array}{r} 4 \\ 6 \\ +\ 2 \\ \hline \end{array}$$

make a 10
doubles
count on

4.

$$\begin{array}{r} 8 \\ 4 \\ +\ 2 \\ \hline \end{array}$$

make a 10
doubles
count on

5.

$$\begin{array}{r} 6 \\ 3 \\ +\ 6 \\ \hline \end{array}$$

make a 10
doubles
count on

6.

$$\begin{array}{r} 6 \\ 7 \\ +\ 4 \\ \hline \end{array}$$

make a 10
doubles
count on

Math Talk Explain why you used the make a 10 strategy to solve Exercise 2.

On Your Own

Use a strategy to find the sum. Circle the strategy you choose.

7. 5 make a 10 5 doubles + 5 count on	**8.** 7 make a 10 3 doubles + 5 count on	**9.** 3 make a 10 8 doubles + 8 count on
10. 4 make a 10 2 doubles + 7 count on	**11.** 2 make a 10 9 doubles + 2 count on	**12.** 9 make a 10 9 doubles + 1 count on
13. 9 make a 10 2 doubles + 8 count on	**14.** 6 make a 10 3 doubles + 7 count on	**15.** 8 make a 10 4 doubles + 1 count on

PROBLEM SOLVING REAL WORLD

16. Christine has 7 red buttons, 3 blue buttons, and 4 yellow buttons. How many buttons does she have?

____ buttons

TAKE HOME ACTIVITY • Ask your child to choose 3 numbers from 1 to 9. Have your child add to find the sum.

Name _____

Add a One-Digit Number to a Two-Digit Number

Essential Question How can you find the sum of a 1-digit number and a 2-digit number?

Model and Draw

What is 54 + 2?

To find the sum, find how many **tens** and **ones** in all.

5 tens **4** ones
\+ **2** ones
5 tens 6 ones

5 4
\+ **2**
5 6

Share and Show

Add. Write the sum.

1. 72 + 3	2. 24 + 1	3. 41 + 4	4. 56 + 2
5. 14 + 4	6. 33 + 6	7. 61 + 8	8. 93 + 4
9. 31 + 6	10. 11 + 7	11. 40 + 4	12. 35 + 3

Math Talk How did you find the total number of ones in Exercise 1?

On Your Own

Add. Write the sum.

13. 22 + 7	14. 53 + 3	15. 46 + 2	16. 71 + 8
17. 84 + 5	18. 93 + 4	19. 16 + 3	20. 37 + 1
21. 62 + 2	22. 23 + 5	23. 82 + 2	24. 44 + 4

PROBLEM SOLVING REAL WORLD

25. There are 23 children in the first grade class. Then 3 more children join the class. How many children are there now?

____ children

TAKE HOME ACTIVITY • Tell your child you had 12 pennies and then you got 5 more. Have your child add to find how many pennies in all.

Name _____

Add Two-Digit Numbers

Essential Question How can you find the sum of two 2-digit numbers?

Model and Draw

What is 23 + 14?

You can find how many **tens** and **ones** in all.

2 tens **3** ones		**2 3**
+ **1** ten **4** ones		+ **1 4**
3 tens 7 ones		3 7

Share and Show

Add. Write the sum.

1. 82 + 12	**2.** 25 + 43	**3.** 15 + 14	**4.** 71 + 12
5. 36 + 21	**6.** 43 + 41	**7.** 57 + 32	**8.** 21 + 12
9. 12 + 12	**10.** 41 + 21	**11.** 32 + 41	**12.** 51 + 14

Math Talk How many tens are in 26 + 11? How do you know?

On Your Own

Add. Write the sum.

13. 83 + 12	**14.** 73 + 21	**15.** 16 + 51	**16.** 23 + 43
17. 24 + 55	**18.** 67 + 21	**19.** 64 + 23	**20.** 51 + 24
21. 26 + 32	**22.** 51 + 25	**23.** 46 + 22	**24.** 34 + 45

PROBLEM SOLVING REAL WORLD

25. Emma has 21 hair clips. Her sister has 11 hair clips. How many hair clips do the girls have together?

____ hair clips

TAKE HOME ACTIVITY • Tell your child you drove 21 miles and then you drove 16 more. Have your child add to find how many miles in all.

Name _____

Repeated Addition

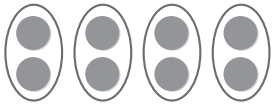
Essential Question How can you find how many items there are in equal groups without counting one at a time?

Model and Draw

When all groups have the same number they are equal groups.

Ayita is putting 2 plants on each step up to her porch. She has 4 steps. How many plants does she need?

There are 4 equal groups. There are 2 in each group. Add to find how many in all.



2 + 2 + 2 + 2 = 8

Ayita needs 8 plants.

Share and Show

Use your MathBoard and ●. Make equal groups. Complete the addition sentence.

	Number of Equal Groups	Number in Each Group	How many in all?
1.	4	3	____ + ____ + ____ + ____ = ____
2.	2	5	____ + ____ = ____
3.	3	4	____ + ____ + ____ = ____

Math Talk How can you use addition to find 5 groups of 4?

On Your Own

Use your MathBoard and ●. Make equal groups. Complete the addition sentence.

	Number of Equal Groups	Number in Each Group	How many in all?
4.	2	3	____ + ____ = ____
5.	3	5	____ + ____ + ____ = ____
6.	4	4	____ + ____ + ____ + ____ = ____
7.	4	5	____ + ____ + ____ + ____ = ____
8.	5	7	____ + ____ + ____ + ____ + ____ = ____

PROBLEM SOLVING REAL WORLD

Solve.

9. There are 3 flower pots. There are 2 flowers in each flower pot. How many flowers are there?

____ flowers

10. There are 2 plants. There are 4 leaves on each plant. How many leaves are there?

____ leaves

TAKE HOME ACTIVITY • Use dry cereal or pasta to make 3 equal groups of 5. Ask your child to find the total number of items.

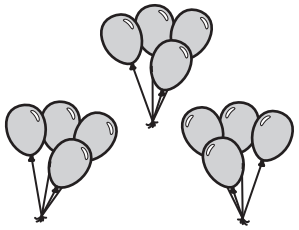
Name _____

Use Repeated Addition to Solve Problems

Essential Question How can you use repeated addition to solve problems?

Model and Draw

Dyanna will have 3 friends at her party. She wants to give each friend 4 balloons. How many balloons does Dyanna need?



12 balloons

THINK 4 + 4 + 4 = 12

Share and Show

Math Board

Draw pictures to show the story. Write the addition sentence to solve.

1. Ted plays with 2 friends. He wants to give each friend 5 cards. How many cards does Ted need?

_____ cards

2. Aisha shops with 4 friends. She wants to buy each friend 2 roses. How many roses does Aisha need?

_____ roses

Math Talk What pattern can you use to find the answer to Exercise 2?

On Your Own

Draw pictures to show the story.
Write the addition sentence to solve.

3. Lea plays with 3 friends. She wants to give each friend 5 ribbons. How many ribbons does Lea need?

_____ ribbons

4. Harry shops with 5 friends. He wants to buy each friend 2 pens. How many pens does Harry need?

_____ pens

5. Cam plays with 4 friends. She wants to give each friend 4 stickers. How many stickers does Cam need?

_____ stickers

PROBLEM SOLVING REAL WORLD

Circle the way you can model the problem.
Then solve.

6. There are 4 friends. Each friend has 3 apples. How many apples are there?

4 groups of 4 apples
4 groups of 3 apples
3 groups of 4 apples

There are _____ apples.

TAKE HOME ACTIVITY • Use small items such as cereal pieces to act out each problem. Have your child check the answers on this page.

Name _____

Checkpoint

Concepts and Skills

Follow the rule to complete each table.

1.

Add 3	
2	
4	
6	
8	

2.

Subtract 7	
10	
12	
13	
14	

3.

Add 6	
10	
9	
8	
7	

4.

Subtract 6	
15	
14	
13	
12	

Use strategies to find the sums. Circle any strategy you use.

5.	4 3 +4	make a 10 doubles count on	6.	3 7 +5	make a 10 doubles count on

Add. Write the sum.

7.	32 +14	8.	52 +46	9.	18 +21	10.	43 +35

Use your MathBoard and ●. Make equal groups.
Complete the addition sentence.

	Number of Equal Groups	Number in Each Group	How many in all?
11.	3	2	___ + ___ + ___ = ___
12.	2	4	___ + ___ = ___

13. Choose the way to model the problem.
James has 4 letters. He puts 2 stamps on each letter.
How many stamps does he use in all?

- ○ 2 groups of 4 stamps
- ○ 4 groups of 4 stamps
- ○ 2 groups of 2 stamps
- ○ 4 groups of 2 stamps

Name _____

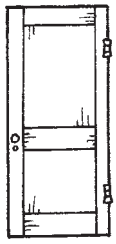
Choose a Nonstandard Unit to Measure Length

Essential Question How can you decide which nonstandard unit to use to measure the length of an object?

Model and Draw

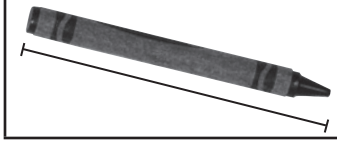
Use  to measure short things.

Use  to measure long things.



Share and Show

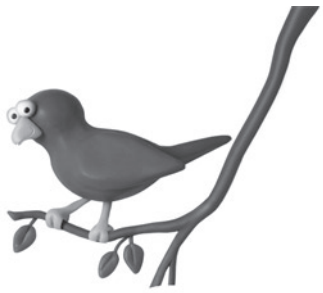
Use real objects. Circle the unit you would use to measure. Then measure.

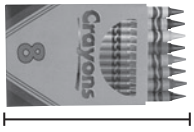
	Object	Unit	Measurement
1.			about _____
2.			about _____
3.			about _____
4.			about _____

Math Talk Alex measured a book with  . Then he measured with  . Did he use more  or  ? Explain.

On Your Own

Use real objects. Choose a unit to measure the length. Circle it. Then measure.



	Object	Unit	Measurement
5.			about _____
6.			about _____
7.			about _____
8.			about _____

PROBLEM SOLVING REAL WORLD

9. Fred uses  to measure the stick.
Sue measures the stick and gets the same measurement.
Circle the unit that Sue uses.

TAKE HOME ACTIVITY • Have your child measure something around the house by using small objects such as paper clips and then by using larger objects such as pencils. Discuss why the measurements differ.

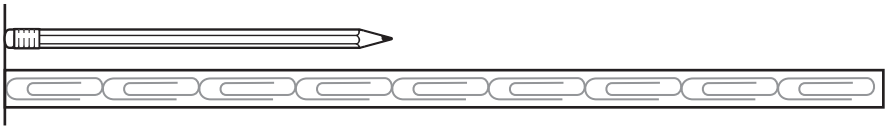
Name _____

Use a Non-Standard Ruler

Essential Question How can you use a non-standard measuring tool to find length?

Model and Draw

About how long is the pencil?



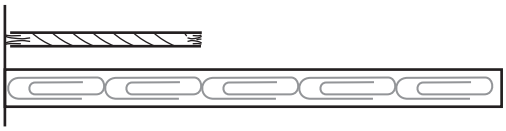
The end of the pencil and the end of the  must line up. Count how many  from one end of the pencil to the other.

about 4 

Share and Show

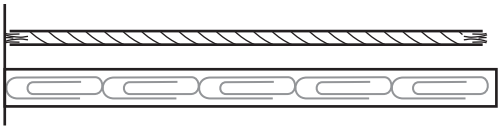
About how long is the string?

1.



about _____ 

2.



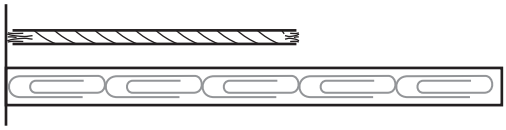
about _____ 

Math Talk In Exercise 1, why must the end of the pencil and the end of the  line up?

On Your Own

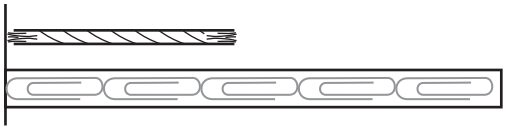
About how long is the string?

3.



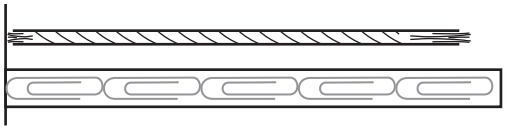
about _____ 

4.



about _____ 

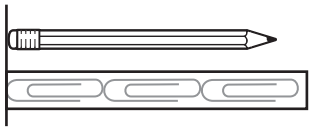
5.



about _____ 

PROBLEM SOLVING REAL WORLD

6. Wendy measures her pencil. She says it is about 2 long. Is she correct? Explain.



_____

_____

_____

TAKE HOME ACTIVITY • Have your child use 20 paper clips to measure different small objects in your house. Be sure the paper clips touch end to end.

Name _____

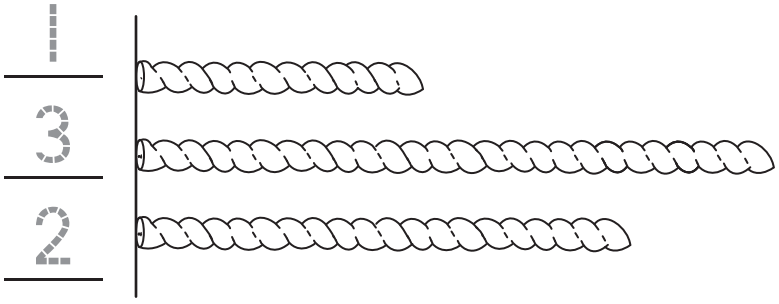
Compare Lengths

Essential Question How can you compare lengths of objects?

Model and Draw

First, write 1, 2, and 3 to order the strings from **shortest** to **longest**.

Then measure with cubes.



about 3 cubes ← Shortest

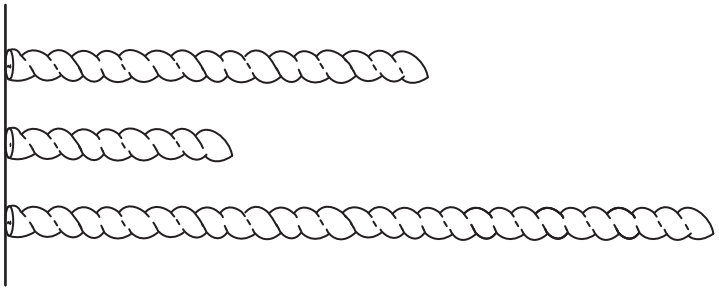
about 8 cubes ← Longest

about 6 cubes

Share and Show

Write 1, 2, and 3 to order the strings from **shortest** to **longest**. Then measure with cubes. Write the lengths.

1. _____



about _____ cubes

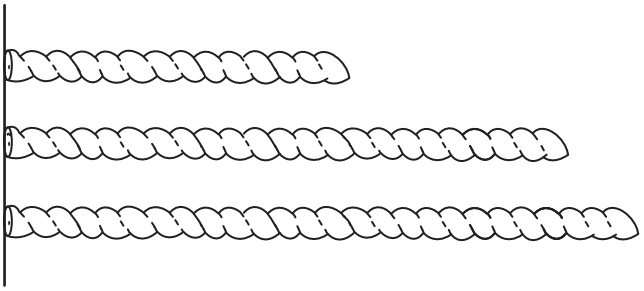
_____ about _____ cubes

_____ about _____ cubes

Math Talk How can measuring with cubes tell you the order of the strings?

On Your Own

2. Write 1, 2, and 3 to order the strings from **shortest** to **longest**. Then measure with ▭. Write the lengths.

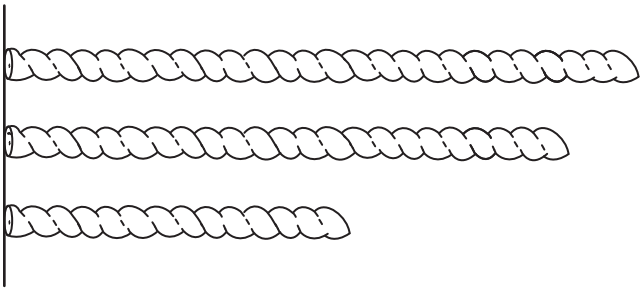


_____ about _____ ▭

_____ about _____ ▭

_____ about _____ ▭

3. Write 1, 2, and 3 to order the strings from **shortest** to **longest**. Then measure with ▭. Write the lengths.



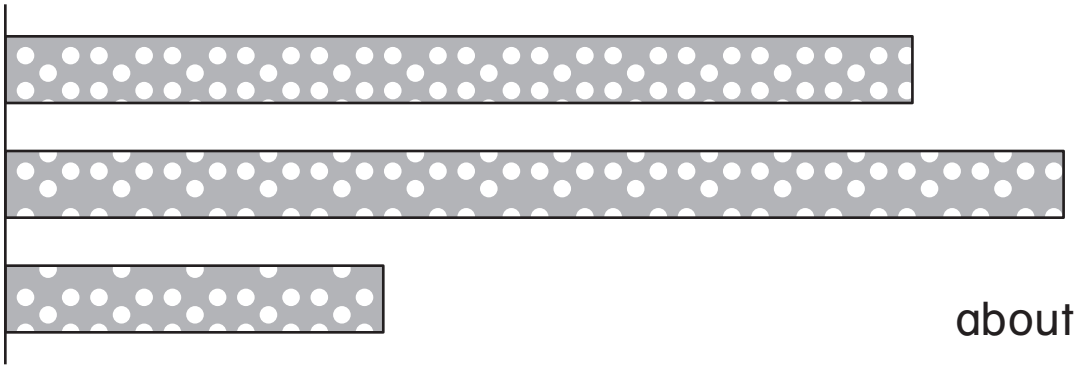
_____ about _____ ▭

_____ about _____ ▭

_____ about _____ ▭

PROBLEM SOLVING REAL WORLD

4. Kate has these ribbons. Kate gives Hannah the longest one. Measure with ▭ and write the length of Hannah's ribbon.



about _____ ▭

TAKE HOME ACTIVITY • Give your child three strips of paper. Have your child cut them about 4 paper clips long, about 2 paper clips long, and about 5 paper clips long. Then have your child order the paper strips from shortest to longest.

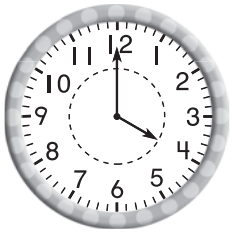
Name _____

Time to the Hour and Half Hour

Essential Question How do you tell time to the hour and half hour on an analog clock?

Model and Draw

The hour hand and the minute hand show the time. Write the time shown on the clock.



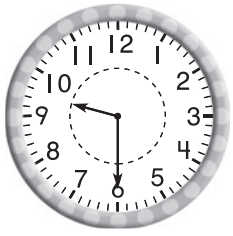
4:00

4:30

Share and Show

Read the clock. Write the time.

1.

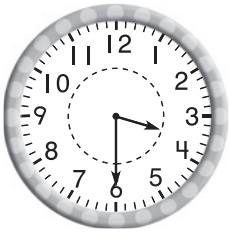


_____

2.

_____

3.



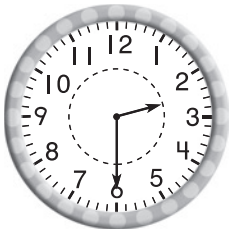
_____

Math Talk Why does the hour hand point halfway between 5 and 6 at half past 5:00?

On Your Own

Read the clock. Write the time.

4.



_____

5.

_____

6.

_____

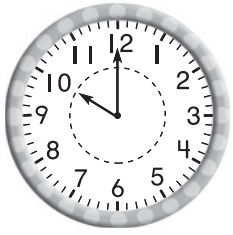
7.

_____

8.

_____

9.

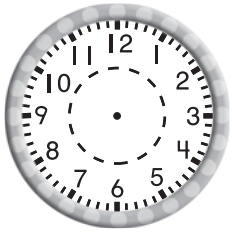


_____

PROBLEM SOLVING REAL WORLD

Draw and write to show the time.

10. Liam has soccer practice at half past 10:00.



_____

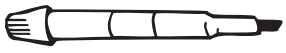
TAKE HOME ACTIVITY • Say a time, such as half past 1:00 or 7:00. Ask your child where the clock hands will point at that time.

Name _____

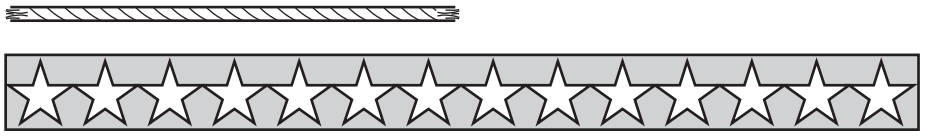
Checkpoint

Concepts and Skills

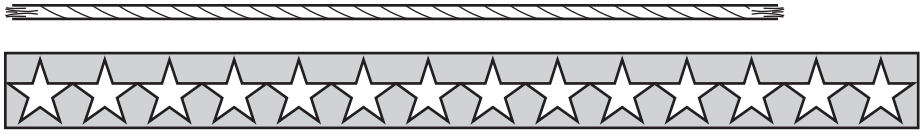
Use real objects. Choose a unit to measure the length. Then measure.

	Object	Unit	Measurement
1.			about ____
2.			about ____
3.			about ____

How long is the yarn? Use the star ruler to measure.

4. 

____ stars long

5. 

____ stars long

Write 1, 2, and 3 to measure the strings from **shortest** to **longest.**
Then measure with cubes. Write the lengths.

6.

____ ____ cubes long

____ ____ cubes long

____ ____ cubes long

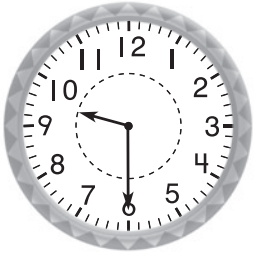
7.

____ ____ cubes long

____ ____ cubes long

____ ____ cubes long

8. Read the clock. Choose the correct time.



- 8:00
- 8:30
- 9:00
- 9:30

Name _____

Use a Picture Graph

Essential Question How do you read a picture graph?

Model and Draw

Our Favorite Hot Dog Toppings	
mustard	3
ketchup	5

Each 🧍 stands for 1 child.

3 children chose  .

Most children chose ketchup.

2 fewer children chose  than  .

Share and Show

Our Sock Colors	
black	2
white	6
blue	3

Each 🧍 stands for 1 child.

Use the picture graph to answer the questions.

1. How many children are wearing  ? ____
2. What color of socks are most of the children wearing? _____
3. How many more children wear  than  ? ____

Math Talk How did you find the answer to Exercise 3?

On Your Own

Our Weather						
rainy	◯	◯	◯	◯		
sunny	◯	◯				
cloudy	◯	◯	◯	◯	◯	◯

Each ◯ stands for 1 day.

Use the picture graph to answer each question.

4. How many days in all are shown on the graph?

_____ days

5. What was the weather for most days? Circle.



6. How many fewer days were  than  ?

_____ days

7. How many  and  days were there?

_____ days

PROBLEM SOLVING REAL WORLD

8. Today is sunny. Robin puts one more  on the graph. How many  days are there now?

_____ days

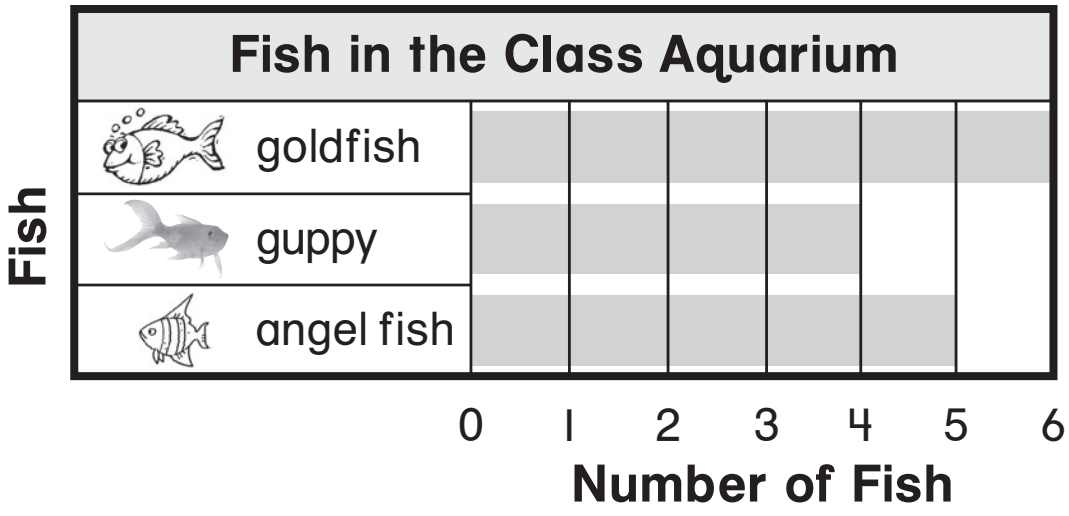
TAKE HOME ACTIVITY • Help your child make a picture graph to show the eye color of 10 friends and family members.

Name _____

Use a Bar Graph

Essential Question How do you read a bar graph?

Model and Draw



To find how many, read the number below the end of the bar.

_____ fish are .

Share and Show

Math Board

Use the bar graph to answer the questions.

1. How many fish are in the aquarium?

_____ fish

2. How many fish in the aquarium are ?

_____ fish

3. How many fewer fish are than ?

_____ fish

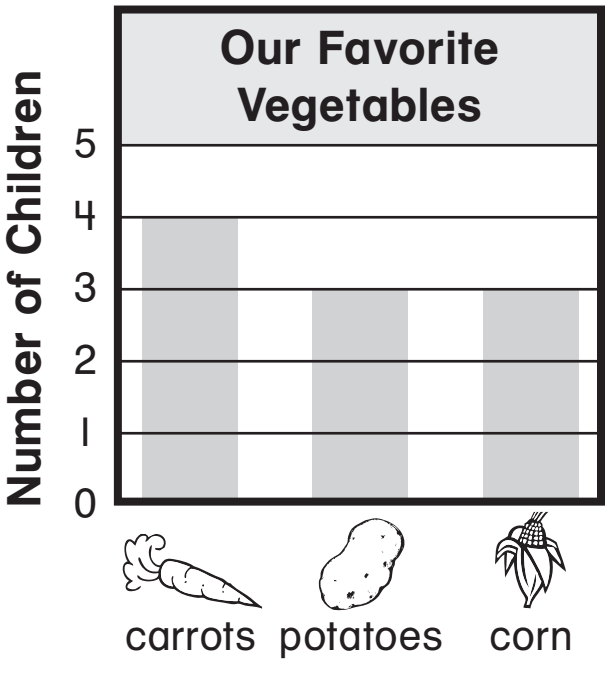
4. Are more of the fish or ?

_____

Math Talk How did you find the answer for Exercise 1?

On Your Own

Use the bar graph to answer the questions.



5. How many children chose  ?

____ children

6. How many children chose  ?

____ children

7. Which vegetable did most children choose? Circle.

8. Which vegetables were chosen the same number of times? Circle.

PROBLEM SOLVING REAL WORLD

Use the bar graph to solve.

9. Brad and Glen both like corn the best. If the boys add this to the graph, how many children will have chosen corn?

____ children

TAKE HOME ACTIVITY • Ask your child to decide whether they prefer carrots or potatoes. Then have your child color to add their choice to the bar graph on this page.

Name _____

Take a Survey

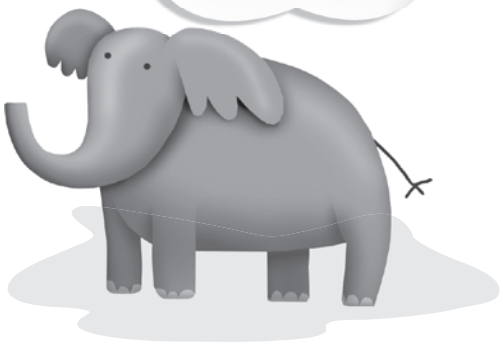
Essential Question How can you take a survey?

Model and Draw

You can take a **survey** to get information. Jane took a survey of her friends' favorite wild animals. The tally chart shows the results.

REMEMBER
Each tally mark stands for one friend's choice.

Favorite Wild Animal	
Animal	**Tally**
elephant	𝍸
monkey	III
tiger	II



Share and Show

Math Board

1. Take a survey.
Ask 10 classmates which wild animal is their favorite. Use tally marks to show their answers.

Our Favorite Wild Animal	
Animal	**Tally**
elephant	
monkey	
tiger	

2. How many children did not choose tiger?
_____ children

3. Did more children choose elephant or tiger? _____

4. The most children chose _____ as their favorite.

Math Talk Describe a different survey that you could take. What would the choices be?

On Your Own

5. Take a survey. Ask 10 classmates which color is their favorite. Use tally marks to show their answers.

Our Favorite Color	
Color	**Tally**
red	
blue	
green	

6. Which color was chosen by the fewest classmates? _____

7. Which color did the most classmates choose? _____

8. Did more classmates choose red or green? _____

9. _____ classmates chose a color that was not red.

10. Did fewer children choose blue or green? _____

PROBLEM SOLVING REAL WORLD

11. Jeff wants to ask 10 classmates which snack is their favorite. He makes 1 tally mark for each child's answer. How many more classmates does he need to ask?

_____ more classmates

Our Favorite Snack	
Snack	**Tally**
pretzels	II
apples	I
popcorn	𝍸

TAKE HOME ACTIVITY • Have your child survey family members about their favorite sport and make a tally chart to show the results.

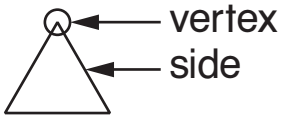
Name _____

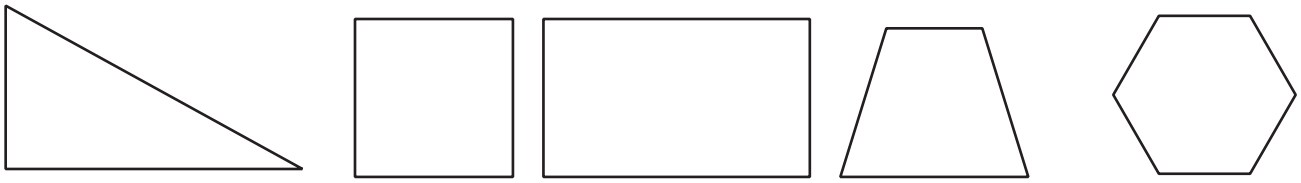
Identify Shapes

Essential Question How can attributes help you identify a shape?

Model and Draw

The number of sides and vertices help you identify a shape.





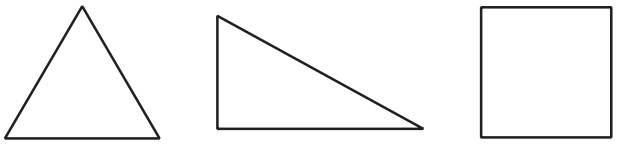
triangle **square** **rectangle** **trapezoid** **hexagon**

3 sides, 3 vertices 4 sides, 4 vertices 6 sides, 6 vertices

Share and Show

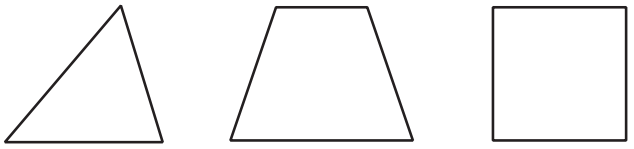
Circle to answer the question. Write to name the shape.

1. Which shape has 4 sides?



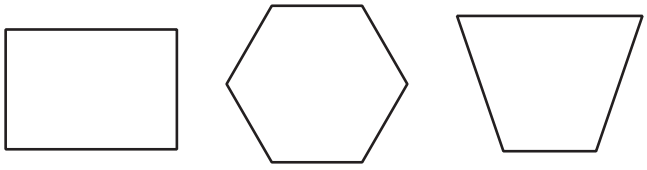
_____

2. Which shape has 3 vertices?



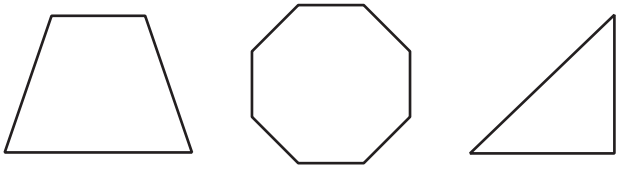
_____

3. Which shape has 6 sides?



_____

4. Which shape has 4 vertices?



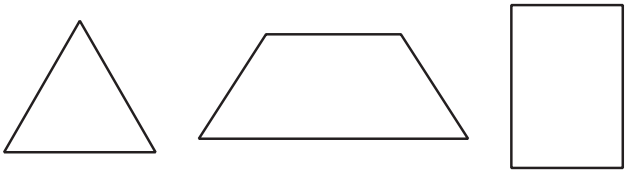
_____

Math Talk How are a square and a rectangle alike?

On Your Own

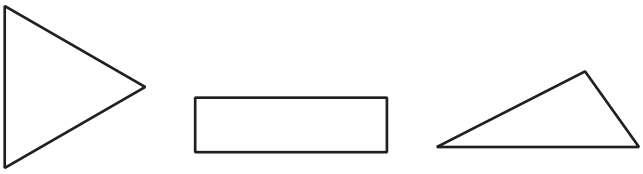
Circle to answer the question. Write to name the shape.

5. Which shape has 3 sides?



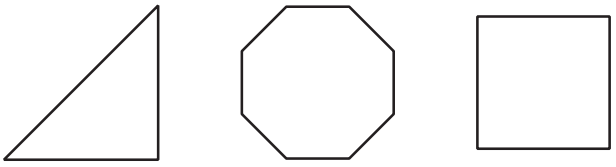
_____

6. Which shape has 4 vertices?



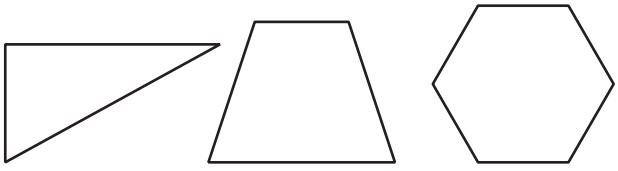
_____

7. Which shape has 4 sides?



_____

8. Which shape has 6 vertices?



_____

PROBLEM SOLVING REAL WORLD

9. Jason, Mat, and Carrie each draw a shape with 4 sides. The shapes look different and have different names.

Draw 3 shapes the children might have drawn. Write to name each shape.

_____ _____ _____

TAKE HOME ACTIVITY • Have your child look around the house to find something that looks like a rectangle. Then have your child point to the rectangle and count the vertices. Repeat with the sides.

Name _____

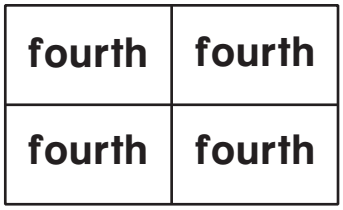
Equal Shares

Essential Question How can you name two or four equal shares?

Model and Draw

2 equal shares

2 halves



4 equal shares

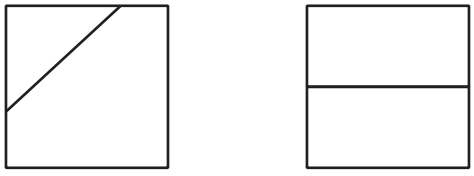
4 fourths

Share and Show

Math Board

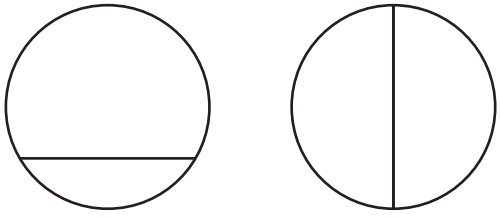
Circle the shape that shows equal shares. Write to name the equal shares.

1.



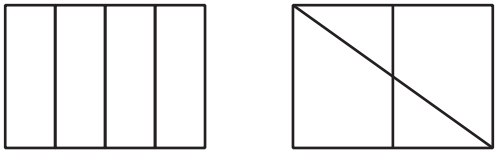
_____

2.



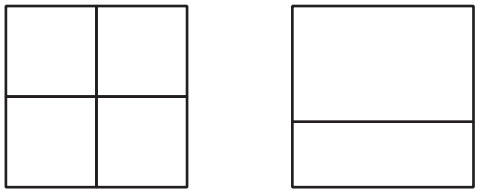
_____

3.



_____

4.



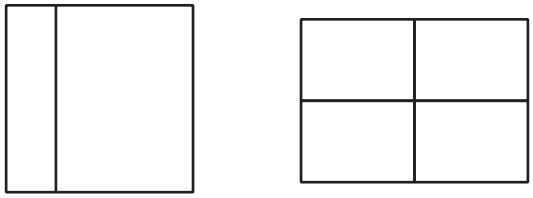
_____

Math Talk Are all equal shares the same size and shape? Explain.

On Your Own

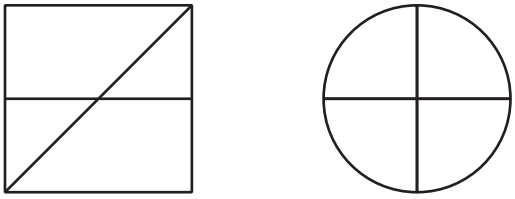
Circle the shape that shows equal shares. Write to name the equal shares.

5.



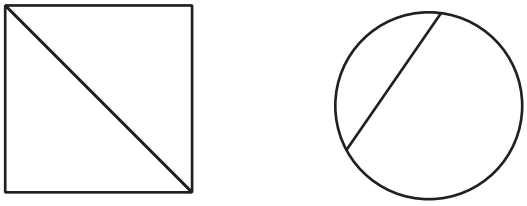
_____

6.



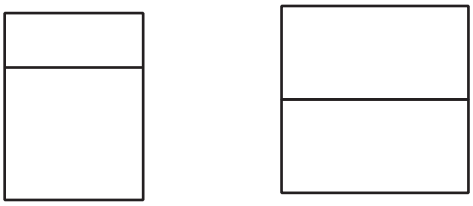
_____

7.



_____

8.



_____

PROBLEM SOLVING REAL WORLD

9. Riley wants to share his cracker with a friend. Draw to show two different ways Riley can cut the cracker into equal shares.

TAKE HOME ACTIVITY • Ask your child to help you cut a piece of toast into fourths.

Name _____

Checkpoint

Concepts and Skills

Use the picture graph to answer Exercises 1 and 2.

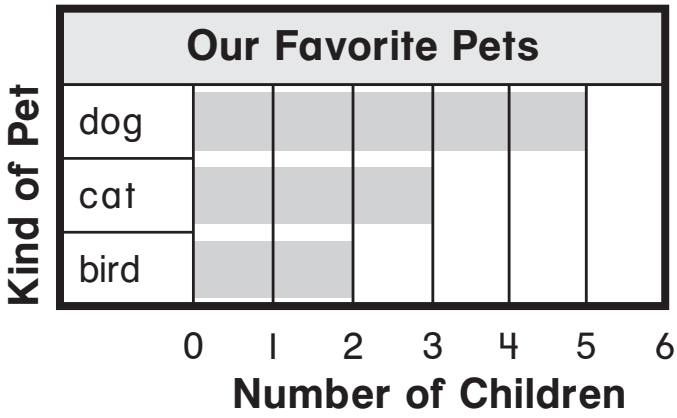
Our Favorite Fruit								
apple	🧍	🧍	🧍	🧍	🧍			
banana	🧍	🧍	🧍	🧍	🧍	🧍	🧍	🧍
orange	🧍	🧍	🧍					

Each 🧍 stands for 1 child.

1. How many children choose an orange? ____

2. Which fruit was chosen most often? _____

Use the bar graph to answer Exercises 3 and 4.



3. Which pet did most children choose? _____

4. How many more children chose a cat than a bird?

_____

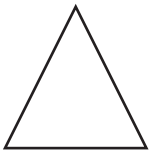
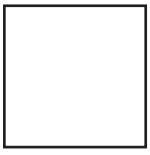
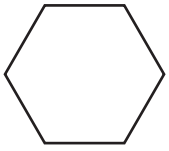
5. Take a survey. Ask 8 classmates which sport is their favorite. Use tally marks to show their answers.

Our Favorite Sport	
Sport	**Tally**
baseball	
football	
soccer	

6. Did more children choose baseball or soccer? _____

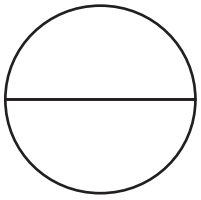
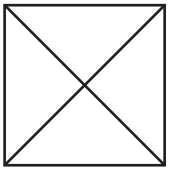
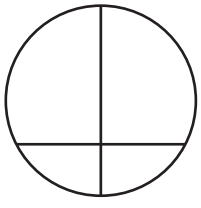
Circle to answer the question. Then write the shape name.

7. Which shape has 4 vertices?

_____

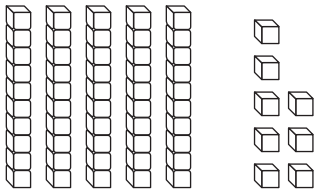
8. Which shape shows fourths?

○ 
○ 
○ 
○ 

Name _____

Algebra • Ways to Expand Numbers

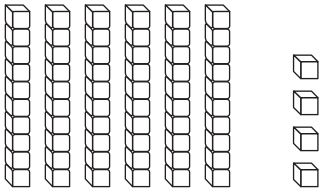
Write how many tens and ones.
Write the number in two different ways.

1. 

5 tens 8 ones

50 + 8

58

2. 

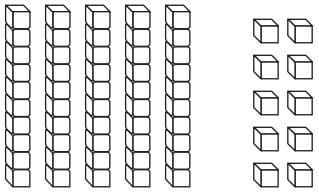
____ tens ____ ones

____ + ____

____

Problem Solving

3. Draw the same number using only tens.
Write how many tens and ones.
Write the number in two different ways.



____ tens ____ ones

____ + ____

____

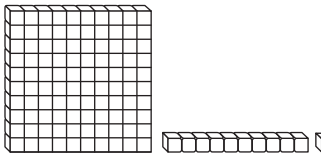
____ tens ____ ones

____ + ____

____

Name _____

Identify Place Value

Use your MathBoard and  .
Draw to complete the quick picture.
Write how many hundreds, tens, and ones.

1. 163

hundreds	tens	ones
1	6	3

2. 128

hundreds	tens	ones
____	____	____

3. 154

hundreds	tens	ones
____	____	____

Problem Solving Real World

Circle your answer.

4. I have 1 hundred, 2 tens, and 5 ones. What number am I?

25 100 125

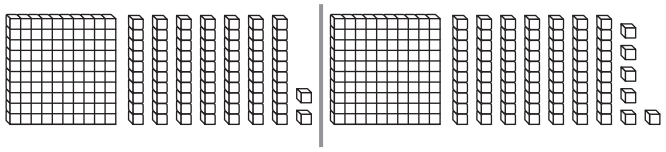
5. I have 0 ones, 5 tens, and 1 hundred. What number am I?

103 105 150

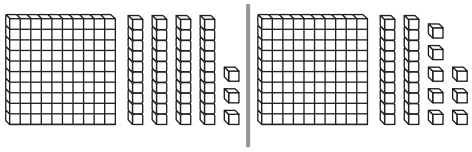
Name _____

Use Place Value to Compare Numbers

Write the numbers. Compare. Write >, <, or =.

1. 

172 < 176

2. 

___ ◯ ___

Compare the numbers using >, <, or =.

3. 162 ◯ 162	**4.** 154 ◯ 148	**5.** 195 ◯ 199
6. 133 ◯ 137	**7.** 129 ◯ 126	**8.** 141 ◯ 141
9. 119 ◯ 125	**10.** 173 ◯ 173	**11.** 187 ◯ 192
12. 153 ◯ 153	**13.** 191 ◯ 178	**14.** 144 ◯ 153

Problem Solving Real World

Solve.

15. Josh is thinking of a number between 100 and 199. It has 1 hundred, 4 tens, and 9 ones. Pia is thinking of a number between 100 and 199. It has 1 hundred, 8 tens, and 2 ones. Who is thinking of the greater number?

Draw or write to explain.

____ is thinking of a greater number.

Name _____

Algebra • Addition Function Tables

Follow a rule to complete the table.

1.

Add 4	
6	
7	
8	

2.

Add 6	
3	
4	
5	

3.

Add 9	
6	
7	
8	

4.

Add 7	
5	
6	
8	
9	

5.

Add 3	
2	
4	
6	
8	

6.

Add 5	
5	
6	
7	
8	

Problem Solving

Solve. Complete the table.

7. Kirk is 9 years old.
Sasha is 7 years old.
Pam is 5 years old.

How old will each child be in 5 years?

Kirk	9	
Sasha	7	
Pam	5	

Name _____

Algebra • Subtraction Function Tables

Follow a rule to complete the table.

1.

Subtract 5	
6	
7	
8	

2.

Subtract 6	
9	
10	
11	

3.

Subtract 4	
9	
10	
11	

4.

Subtract 8	
11	
13	
15	
16	

5.

Subtract 9	
11	
13	
15	
17	

6.

Subtract 7	
9	
12	
13	
15	

Problem Solving Real World

7. Solve. Complete the table.

Layla has 6 pens.
Mark has 5 pens.
Jorge has 4 pens.

How many pens will each child have if they each give away 3 pens?

Layla	6	
Mark	5	
Jorge	4	

Name _____

Algebra • Follow the Rule

Follow a rule to complete the table.

1.

Add 4	
6	
7	
8	
9	

2.

Subtract 2	
7	
8	
9	
10	

3.

Subtract 5	
5	
7	
9	
11	

4.

Subtract 4	
6	
8	
10	
12	

5.

Add 7	
10	
9	
8	
7	

6.

Add 3	
6	
5	
4	
3	

Problem Solving Real World

Find the rule. Complete the table.

7.

4	
	8
8	10
	12

8.

	6
8	7
10	
	11

Name _____

Add 3 Numbers

Use strategies to find the sums.
Circle any strategy you use.

1. 1 + 6 + 9 = ____
make a 10
doubles
count on

2. 3 + 5 + 5 = ____
make a 10
doubles
count on

3. 8 + 6 + 2 = ____
make a 10
doubles
count on

4. 3 + 4 + 7 = ____
make a 10
doubles
count on

5. 2 + 7 + 8 = ____
make a 10
doubles
count on

6. 5 + 4 + 5 = ____
make a 10
doubles
count on

7. 7 + 5 + 2 = ____
make a 10
doubles
count on

8. 6 + 3 + 6 = ____
make a 10
doubles
count on

9. 2 + 6 + 7 = ____
make a 10
doubles
count on

Problem Solving Real World

10. Andy has 5 red marbles, 4 blue marbles, and 6 yellow marbles. How many marbles does he have?

____ marbles

Name _____

Add a One-Digit Number to a Two-Digit Number

Add. Write the sum.

1. 34 + 5	**2.** 44 + 3	**3.** 37 + 1
4. 37 + 1	**5.** 91 + 4	**6.** 84 + 2
7. 45 + 3	**8.** 12 + 7	**9.** 24 + 4
10. 32 + 5	**11.** 71 + 7	**12.** 53 + 2

Problem Solving Real World

13. There are 21 children in the pool. Then 5 more children join them. How many children are in the pool now?

____ children

Name _____

Add Two-Digit Numbers

Add. Write the sum.

1. 31 + 52	**2.** 65 + 34	**3.** 21 + 32
4. 14 + 21	**5.** 72 + 26	**6.** 46 + 31
7. 53 + 12	**8.** 34 + 54	**9.** 27 + 50
10. 84 + 11	**11.** 32 + 53	**12.** 56 + 22

Problem Solving Real World

13. Evan has 15 toy cars. His brother has 13 toy cars. How many toy cars do the boys have together?

_____ toy cars

Name _____

Repeated Addition

Use your MathBoard and ●. Make equal groups. Complete the addition sentence.

	Number of Equal Groups	Number in Each Group	How many in all?
1.	2	4	4 + 4 = 8
2.	3	6	____ + ____ + ____ = ____
3.	4	3	____ + ____ + ____ + ____ = ____
4.	5	5	____ + ____ + ____ + ____ + ____ = ____

Problem Solving Real World

Solve.

5. There are 3 bowls. There are 3 apples in each bowl. How many apples are there?

____ apples

6. There are 2 shelves. Each shelf has 5 books. How many books are there?

____ books

Name _____

Use Repeated Addition to Solve Problems

Draw pictures to show the story.
Write the addition to solve.

1. Krista plays with 3 friends. She wants to give each friend 4 pretzels. How many pretzels does Krista need?

____ pretzels

2. Ed plants seeds with 5 friends. He wants to give each friend 5 seeds. How many seeds does Ed need?

____ seeds

Problem Solving Real World

Circle the way you can model the problem.
Then solve.

3. There are 5 friends. Each friend has 4 books. How many books are there?

5 groups of 5 books

5 groups of 4 books

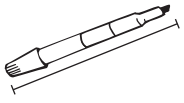
4 groups of 5 books

There are ____ books.

Name _____

Choose a Nonstandard Unit to Measure Length

Use real objects. Choose a unit to measure the length. Then measure.

	Object	Unit	Measurement
1.			about _____
2.			about _____
3.			about _____
4.			about _____

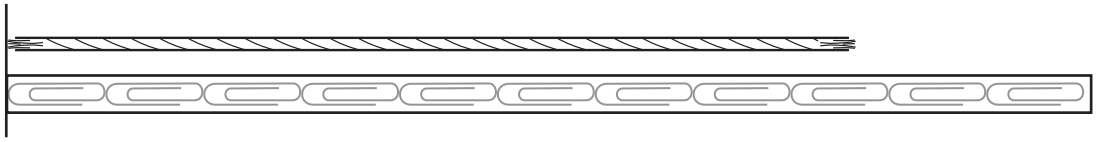
Problem Solving

5. Shira uses  to measure the fork. Brandon measures the fork and gets a measurement that is less than Shira's measurement. Circle the unit that Brandon uses.

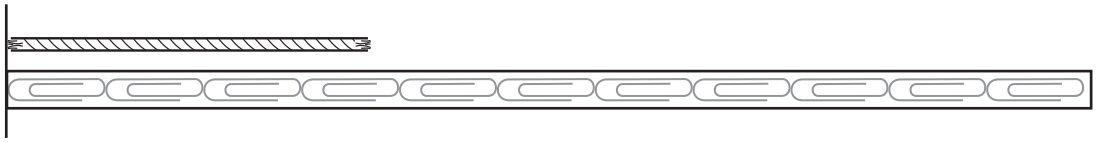
Name _____

Use a Nonstandard Ruler

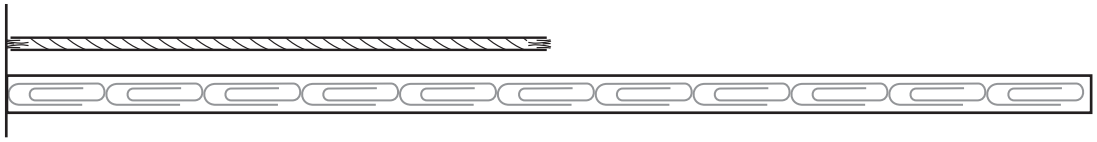
About how long is the string?

1. 

about ____ paper clips

2. 

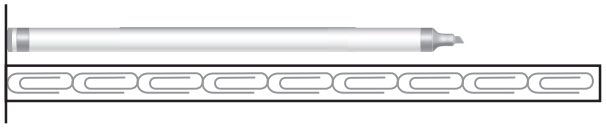
about ____ paper clips

3. 

about ____ paper clips

Problem Solving Real World

4. Travis measures his marker. He says it is about 7 paper clips long. Is he correct? Explain.



_____

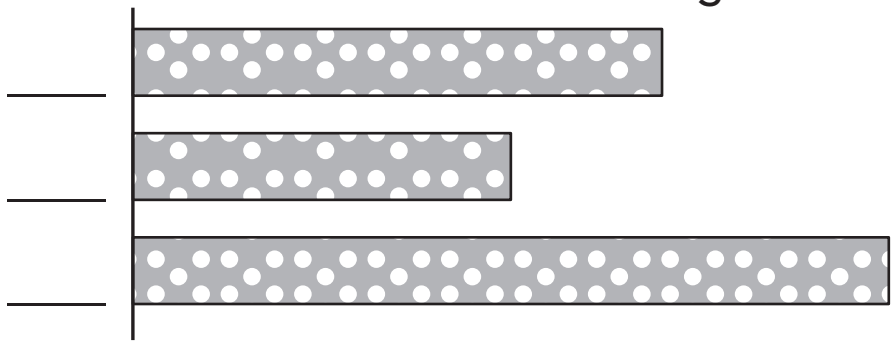
_____

_____

Name _____

Compare Lengths

1. Write 1, 2, and 3 to order the ribbons **shortest** to **longest.** Then measure in ▭. Write the lengths.

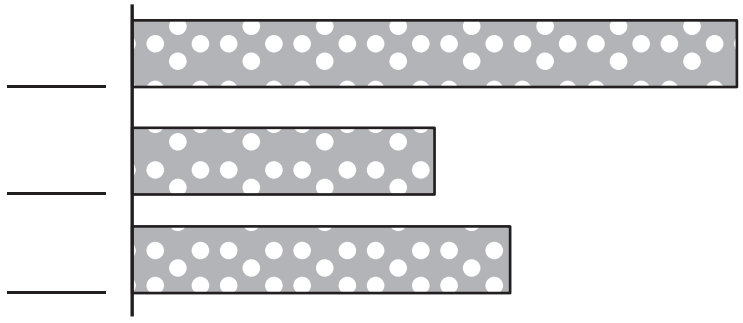


_____ about _____ ▭

_____ about _____ ▭

_____ about _____ ▭

2. Write 1, 2, and 3 to order the ribbons from **shortest** to **longest.** Then measure in ▭. Write the lengths.



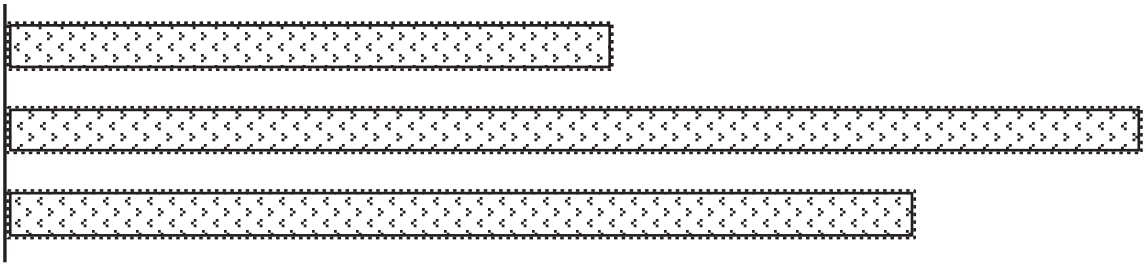
_____ about _____ ▭

_____ about _____ ▭

_____ about _____ ▭

Problem Solving Real World

3. Julie has these pieces of lace. Julie gives Megan the shortest one. Measure with ▭ and write the length of Megan's lace.

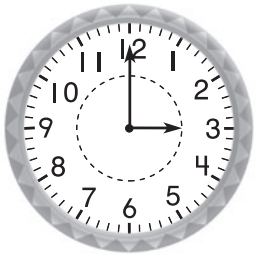


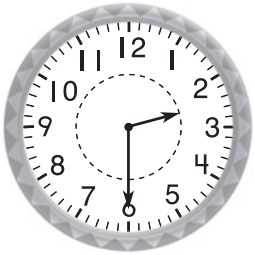
about _____ ▭

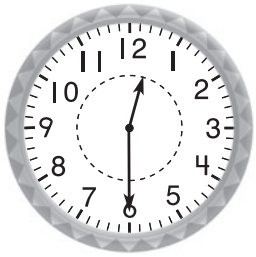
Name _____

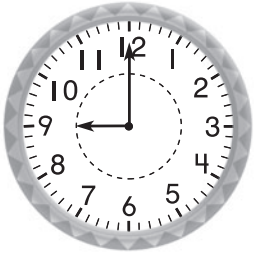
Time to the Hour and Half Hour

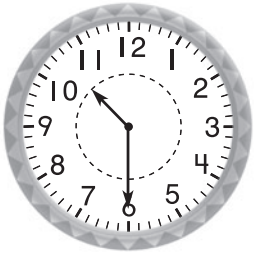
Write the time shown on the clock.

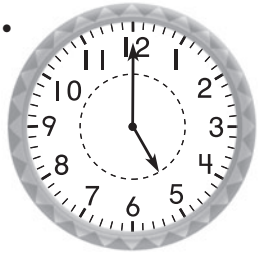
1. 
_____

2. 
_____

3. 
_____

4. 
_____

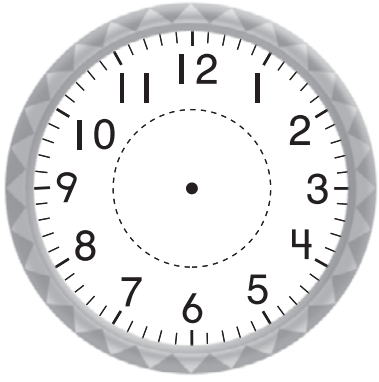
5. 
_____

6. 
_____

Problem Solving Real World

Draw and write to show the time.

7. Kirsten needs to leave for her piano lesson at 4. Draw to show where the hands on the clock will be at that time. Write the time.



_____

Name _____

Use a Picture Graph

Lassie's Day						
play						
eat						
rest						

Each stands for 1 hour.

Use the picture graph to answer each question.

1. What did Lassie do most of the day? Circle.

2. How many hours did Lassie today?

_____ hours

3. How many more hours did Lassie spend than ?

_____ hours

4. How many hours did Lassie and ?

_____ hours

Problem Solving Real World

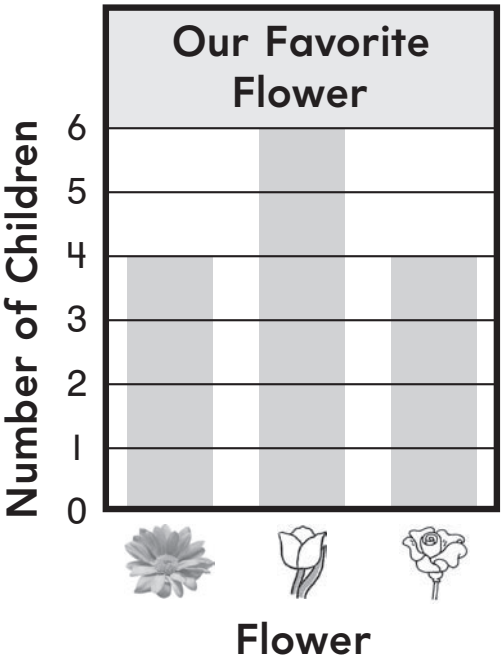
5. Yesterday Lassie spent 2 hours . How many more hours did Lassie spend today?

_____ hours

Name _____

Use a Bar Graph

Use the bar graph to answer the questions.



1. How many children like  best?

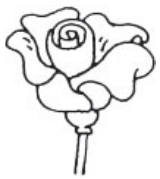
_____ children

2. How many children like  best?

_____ children

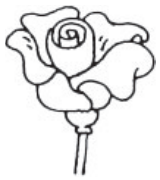
3. Which flower did most children choose? Circle.





4. Which flowers were chosen an equal number of times? Circle.





Problem Solving Real World

Use data from the bar graph to help solve.

5. Trish and Jennifer both like  the best. If the girls add this data to the graph, how many children will have chosen  ?

_____ children

Name _____

Take a Survey

1. Take a survey. Ask 10 classmates which fruit is their favorite. Use tally marks to show their answers.

Our Favorite Fruit	
Fruit	**Tally**
apple	
banana	
orange	

2. Which fruit did the fewest classmates choose? _____

3. Which fruit did the most classmates choose? _____

4. Did more classmates choose apple or orange? _____

5. _____ classmates chose a fruit that was not apple.

Problem Solving Real World

6. Felix wants to ask 12 friends which pet is their favorite. He makes 1 tally mark for each child's answer. How many more friends does he need to ask?

Our Favorite Pets	
Pet	**Tally**
dog	𝍸
cat	𝍸 | |
bird	|

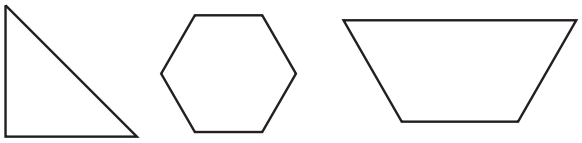
_____ more friends

Name _____

Identify Shapes

Circle to answer the question. Write to name.

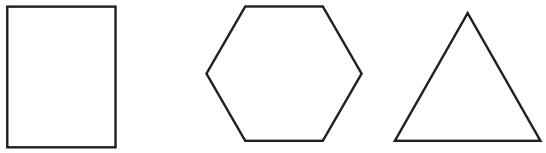
1. Which shape has 4 vertices?



triangle hexagon trapezoid

_____

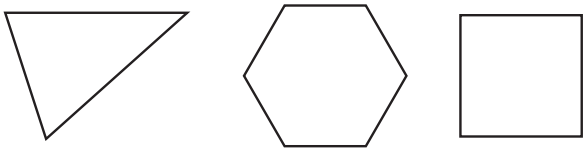
2. Which shape has 4 sides?



rectangle hexagon triangle

_____

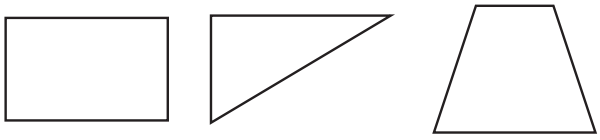
3. Which shape has 6 sides?



triangle hexagon square

_____

4. Which shape has 3 vertices?



rectangle triangle trapezoid

_____

Problem Solving Real World

5. Mira, Liz, and Devin all draw shapes with 4 vertices. Their shapes look different and have different names.

Draw 3 shapes the children might have drawn. Label each shape with its shape name.

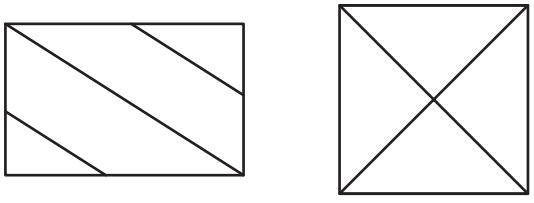
_____ _____ _____

Name _____

Equal Shares

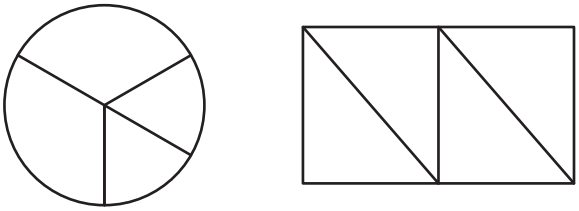
Circle the shape that shows equal shares.
Write to name the equal shares.

1.



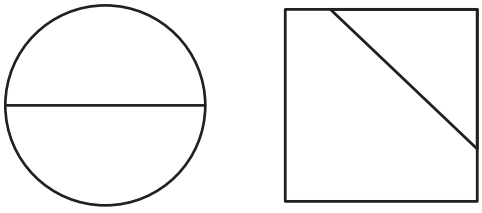
_____

2.



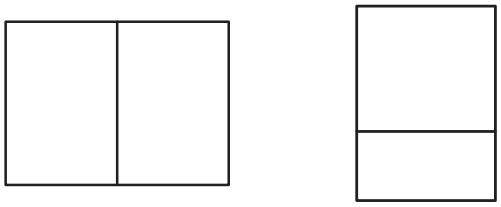
_____

3.



_____

4.



_____

Problem Solving

5. Gina wants to cut some slices of cheese into 4 equal shares. Draw to show two different ways she can make 4 equal shares.