New Vocabulary
picture graph

Lesson 3

Reading Picture Graphs

Name _____ Class _____ Date _____

Get Started

1

Favorite Pet					
Dog					
Cat					
Bird					
Fish					

Key: Each picture stands for 1.

2 How many students chose dog? _____ students

3 Which pet was chosen the most? _____

4 Did more students choose dog or fish? _____

How To

Make a picture graph for favorite shape.
Use the Blank Picture Graph.

Think: How many does each picture stand for?

Step 1 Write the title.

Step 2 Read the key.

Step 3 List the shapes.

Step 4 Vote. Draw a shape for each vote.

Favorite Shape					
Square					
Circle					
Triangle					

Key: Each picture stands for 1.

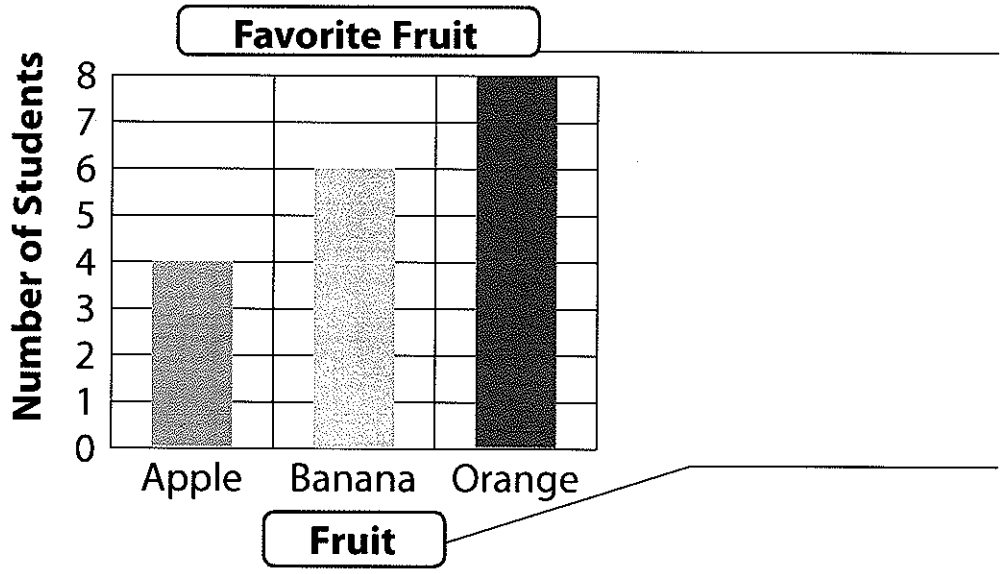
Which shape was chosen the most? _____

Reading Bar Graphs

Name _____ Class _____ Date _____

Get Started

1



How To

Which fruit was chosen the least?
Which fruit was chosen the most?

Step 1

Look at the heights of the bars.

Think: How do the heights of the bars compare?

Step 2

Which fruit has the shortest bar? _____

_____ was chosen the least.

Step 3

Which fruit has the tallest bar? _____

_____ was chosen the most.

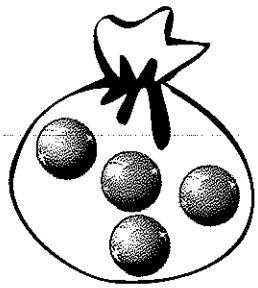
New Vocabulary
event
certain
impossible

Certain and Impossible

Name _____ Class _____ Date _____

Get Started

1

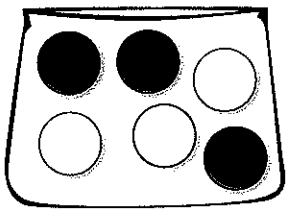


You can pick	You cannot pick
_____	_____
_____	

2 Certain ◯ ◯ Impossible ◯

How To

Choose the word that tells about the event.
Anna picks a blue counter.



Certain

Impossible

Think: What colors are in the bag?

Step 1
Which colors can Anna pick? _____ or _____

Step 2
Can Anna pick blue? _____

Step 3
Certain: _____ or _____
Impossible: _____

Step 4
Draw a ring around the word *Impossible*.

New Vocabulary

likely — less likely
more likely — least likely
most likely

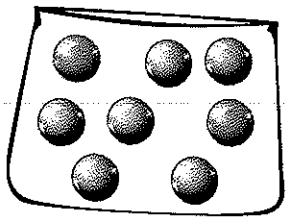
Most Likely and Least Likely

Name _____ Class _____ Date _____

Get Started

1

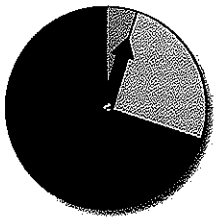
Number of Marbles	
Blue	_____
Green	_____



2 More likely: _____

Less likely: _____

3

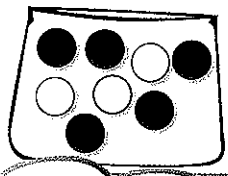


Most likely: _____

Least likely: _____

How To

Which color counter are you more likely to pick?
Which color counter are you less likely to pick?



Step 1

Put 5 orange counters in the bag.
Put 3 yellow counters in the bag.

Think: What color counters are in the bag?

Step 2

Which color has more counters? _____

More likely: _____

Step 3

Which color has fewer counters? _____

Less likely: _____

Problem-Solving: Using a Table

Name _____ Class _____ Date _____

Get Started

1

	1	3
+	1	6

2

	2	8
−	1	4

How To

The second grade voted on their favorite color. This table shows their votes. How many students picked blue or yellow as their favorite color?

Favorite Color	
Color	**Number**
Red	28
Blue	13
Yellow	16

Step 1

Find: how many students picked blue or yellow

Step 2

How? Use a table.

Step 3

Solve. Blue: _____ Yellow: _____

Add. 13 + 16 = _____

_____ students picked blue or yellow.

Think: When we put two numbers together, we use addition.

Step 4

Does my answer make sense? Explain.

_____

_____

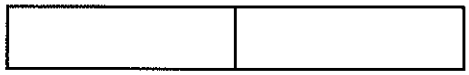
New Vocabulary

fraction
half (halves)
fourth (fourths)
fraction bar
fraction strip

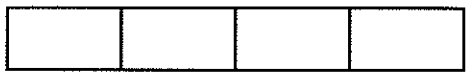
Halves and Fourths with Fraction Strips

Name _____ Class _____ Date _____

Get Started

1. 

_____ congruent parts

2. 

_____ congruent parts

3. 

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

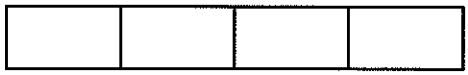
4. 

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

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

How To

Color 3 parts of the model. Then name the fraction.



$\frac{\square}{\square}$

Think: Should I write the top number or the bottom number first?

Step 1

How many parts are there in all?

_____

This is the bottom number of the fraction.

Step 2

How many parts are colored?

_____

This is the top number of the fraction.

New Vocabulary
third (thirds)
sixth (sixths)

Lesson 2

Thirds and Sixths with Fraction Strips

Name _____ Class _____ Date _____

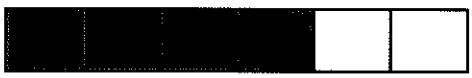
Get Started

1. 

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

2. 

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

3. 

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

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

How To

Color 2 parts of the model. Then name the fraction.

$\frac{\quad}{\quad}$

Think: Should I write the top number or the bottom number first?

Step 1

How many parts are there in all?

_____

This is the bottom number of the fraction.

Step 2

How many parts are colored?

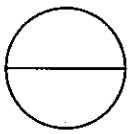
_____

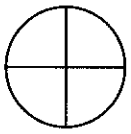
This is the top number of the fraction.

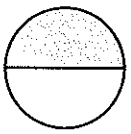
Halves and Fourths with Fraction Circles

Name _____ Class _____ Date _____

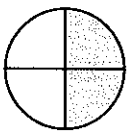
Get Started

1.  _____

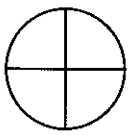
2.  _____

3. 

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

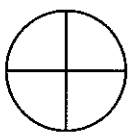
4. 

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

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

How To

Color 3 parts of the model. Then name the fraction.

 $\frac{\square}{\square}$

Think: Should I write the top number or the bottom number first?

Step 1

How many parts are there in all?

_____

This is the bottom number of the fraction.

Step 2

How many parts are colored?

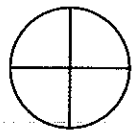
_____

This is the top number of the fraction.

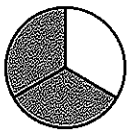
Thirds and Sixths with Fraction Circles

Name _____ Class _____ Date _____

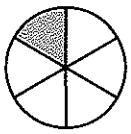
Get Started

1. 

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

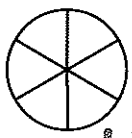
2. 

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

3. 

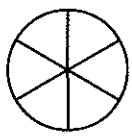
$\frac{1}{5}$ $\frac{1}{6}$ $\frac{4}{6}$ $\frac{5}{6}$

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

5. $\frac{3}{6}$ 

How To

Color 5 parts of the model. Then name the fraction.



$\frac{\square}{\square}$

Think: Should I write the top number or the bottom number first?

Step 1

How many parts are there in all?

_____

This is the bottom number of the fraction.

Step 2

How many parts are colored?

_____

This is the top number of the fraction.

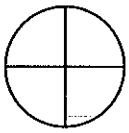
New Vocabulary
eighth (eighths)

Lesson 5

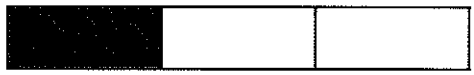
Understanding Fractions

Name _____ Class _____ Date _____

Get Started

1. 

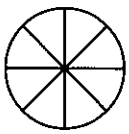
$\frac{1}{4}$ $\frac{1}{3}$ $\frac{3}{4}$ $\frac{3}{1}$

2. 

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

3. 

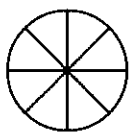
$\frac{1}{8}$ $\frac{1}{6}$ $\frac{1}{4}$ $\frac{1}{3}$

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

5. $\frac{2}{4}$ 

How To

Color 5 parts of the model. Then name the fraction.



$\frac{\square}{\square}$

Think: Should I write the top number or the bottom number first?

Step 1

How many parts are there in all?

_____

This is the bottom number of the fraction.

Step 2

How many parts are colored?

_____

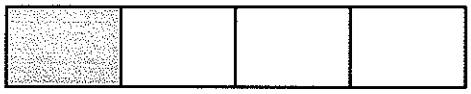
This is the top number of the fraction.

Comparing Fractions

Name _____ Class _____ Date _____

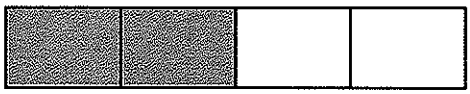
Get Started

1



_____

2



_____

3

$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$
$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$

$\frac{1}{4}$ is _____ $\frac{2}{4}$.

4

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

$\frac{2}{3}$ is _____ $\frac{3}{8}$.

How To

Use fraction strips to compare $\frac{1}{4}$ with $\frac{3}{6}$.

Step 1

Model each fraction.

Step 2

Compare the models.

Think: Which fraction strip has more colored in?

Step 3

Write a sentence: $\frac{1}{4}$ is _____ $\frac{3}{6}$.

$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$		
$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$

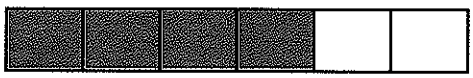
Naming Fractional Parts of a Set

Name _____ Class _____ Date _____

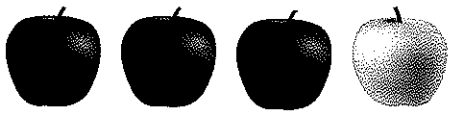
Get Started

1 

_____

2 

_____

3 

_____ ← green apples

_____ ← total apples

How To

What fraction of the counters are red?

Step 1

Count the total counters. This is the bottom number.

Step 2

Count the red counters. This is the top number.

Think: What color is the question asking about?

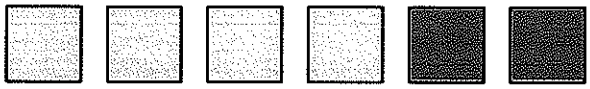
Step 3

So, —— of the counters are red.

Problem-Solving: Making a Model

Name _____ Class _____ Date _____

Get Started

1 

—— of the tiles are green.

—— of the tiles are blue.

How To

Natalie has 8 balloons in all. She has 6 heart balloons. What fraction of the balloons are hearts?

Think: What balloons are being asked about?

Step 1

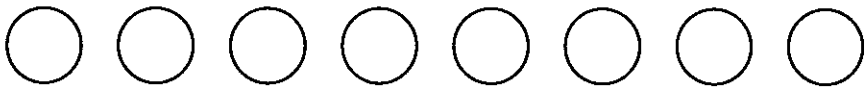
Find: the fraction of the balloons that are _____

Step 2

How? Make a model.

Step 3

Solve.

Model: 

—— of the balloons are hearts.

Step 4

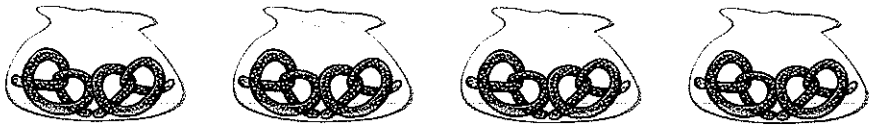
Does my answer make sense? Explain.

_____

Relating Multiplication and Addition

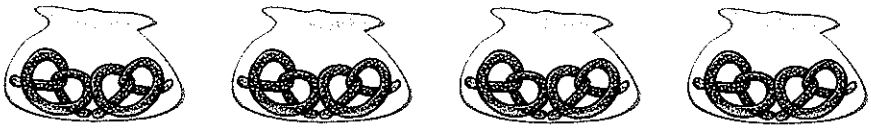
Name _____ Class _____ Date _____

Get Started

1. 

There are _____ bags of _____ pretzels each.

There are _____ pretzels in all.

2. 

$2 + 2 + 2 + 2 =$ _____ $4 \times 2 =$ _____

How To

There are 6 groups of 2 counters each. How many counters are there in all?

Step 1

Write an addition sentence.

$2 + 2 + 2 + 2 + 2 + 2 =$ _____

Step 2

Write a multiplication sentence.

_____ × _____ = _____

Think: How many groups are there? How many counters are in each group?

Step 3

Write the answer.

There are _____ counters.

New Vocabulary
divide

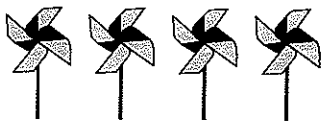
Lesson 10

Dividing into Equal Groups

Name _____ Class _____ Date _____

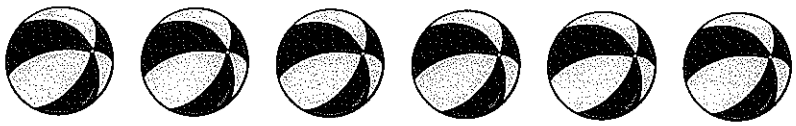
Get Started

1



_____ _____

2



6 divided into groups of 3 each = _____ groups

How To

Divide 15 counters into groups of 5 counters each. How many groups are there?

Step 1
Put _____ counters on your desk.

Think: How many counters should be in each group?

Step 2
Draw a ring around each group of _____ counters.

Step 3
Count the number of groups.
15 divided into groups of 5 each = _____ groups