

SUMMER LEARNING

Keep your
brain healthy
over **summer** break!



Getting Ready
for
3rd Grade

Find Sums on an Addition Table

Essential  How do you find sums on an addition table?

$$3 + 4 = ?$$

The sum for $3 + 4$ is found where row 3 and column 4 meet.

$$3 + 4 = \underline{7}$$

	column				
+	0	1	2	3	4
0	0	1	2	3	4
1	1	2	3	4	5
2	2	3	4	5	6
3	3	4	5	6	7
4	4	5	6	7	8

Check Understanding

- 1 Write the missing sums in the addition table.

+	0	1	2	3	4	5	6	7	8	9	10
0	0	1	2	3	4	5	6			9	
1	1	2	3	4	5	6			9		11
2	2	3	4	5	6			9		11	12
3	3	4	5	6			9		11	12	13
4	4	5	6			9		11	12	13	14
5	5	6			9		11	12	13	14	15
6	6			9		11	12	13	14	15	16
7			9		11	12	13	14	15	16	17
8		9		11	12	13	14	15	16	17	18
9	9		11	12	13	14	15	16	17	18	19
10		11	12	13	14	15	16	17	18	19	20



Turn and Talk Describe a pattern in the addition table.

On My Own

2 Write the missing sums in the addition table.

+	0	1	2	3	4	5	6	7	8	9	10
0	0	1	2	3	4	5	6			9	
1	1	2	3	4	5	6			9		11
2	2	3	4	5	6			9		11	12
3	3	4	5	6			9		11	12	13
4	4	5	6			9		11	12	13	14
5	5	6			9		11	12	13	14	15
6	6			9		11	12	13	14	15	16
7			9		11	12	13	14	15	16	17
8		9		11	12	13	14	15	16	17	18
9	9		11	12	13	14	15	16	17	18	19
10		11	12	13	14	15	16	17	18	19	20

Solve. Write or draw to explain.

3 Natasha has 13 apples. Some apples are red and some are green. She has more red apples than green apples. How many red apples and how many green apples could she have?

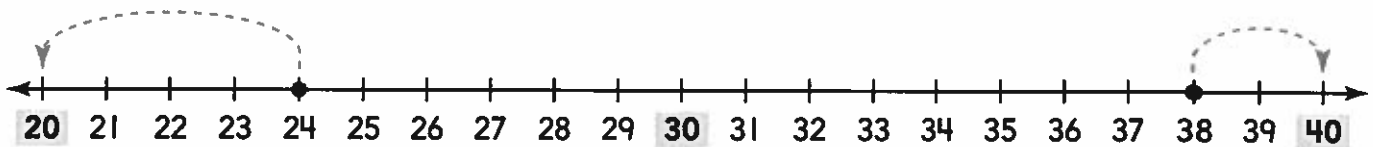
Take Home Activity Ask your child to explain how to use the addition table to find the sum of $8 + 6$.

Name _____

Estimate Sums: 2-Digit Addition

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

Estimate the sum of $24 + 38$.
Find the nearest ten for each number.



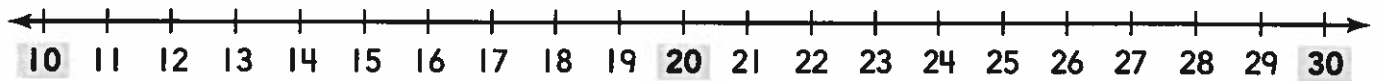
$$\underline{20} + \underline{40} = \underline{60}$$

An estimate of the sum is 60.

Check Understanding

Find the nearest ten for each number.

1 Estimate the sum of $18 + 29$.



Add the tens to estimate.

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

An estimate of the sum is _____.

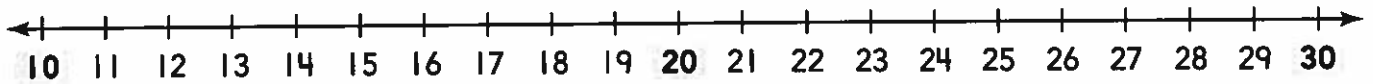


Turn and Talk How did you know which ten is nearest to 18?

On My Own

Find the nearest ten for each number.
Add the tens to estimate.

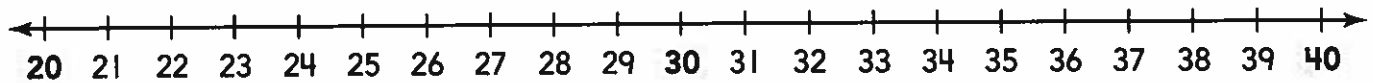
- 2** Estimate the sum of $13 + 28$.



$$\underline{\quad\quad} + \underline{\quad\quad} = \underline{\quad\quad}$$

An estimate of the sum is _____.

- 3** Estimate the sum of $31 + 22$.



$$\underline{\quad\quad} + \underline{\quad\quad} = \underline{\quad\quad}$$

An estimate of the sum is _____.

Solve. Write or draw to explain.

- 4** Mark has 34 pennies. Emma has 47 pennies.
About how many pennies do they have
altogether?

about _____ pennies

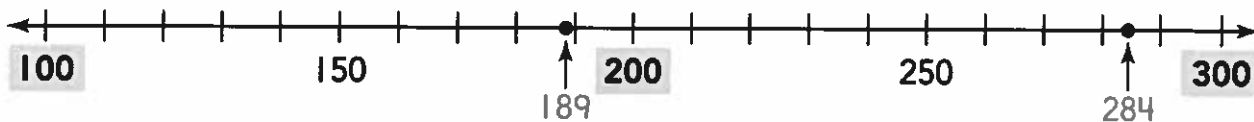
Take Home Activity Ask your child to use the number line for Exercise 2 and describe how to estimate the sum of $27 + 21$.

Estimate Sums: 3-Digit Addition

Essential  How can you estimate the sum of two 3-digit numbers?

Estimate the sum of $189 + 284$.

Find the nearest hundred for each number.



$$\underline{200} + \underline{300} = \underline{500}$$

An estimate of the sum is 500.

Check Understanding

Find the nearest hundred for each number.

Add the hundreds to estimate.

I Estimate the sum of $229 + 386$.



$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

An estimate of the sum is .

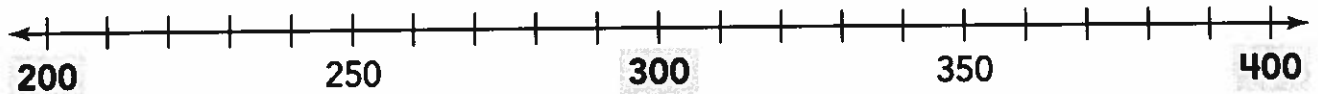


Turn and Talk How do you know which two hundreds a 3-digit number is between?

On My Own

Find the nearest hundred for each number.
Add the hundreds to estimate.

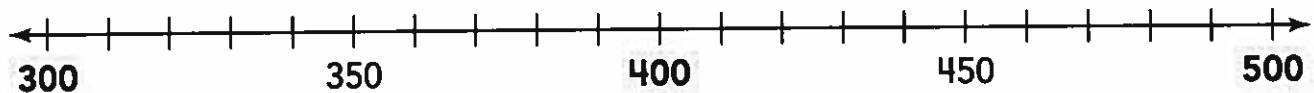
- 2** Estimate the sum of $324 + 218$.



$$\underline{\quad\quad} + \underline{\quad\quad} = \underline{\quad\quad}$$

An estimate of the sum is _____.

- 3** Estimate the sum of $468 + 439$.



$$\underline{\quad\quad} + \underline{\quad\quad} = \underline{\quad\quad}$$

An estimate of the sum is _____.

Solve. Write or draw to explain.

- 4** There are 375 yellow fish and 283 blue fish swimming around a coral reef. About how many fish are there altogether?

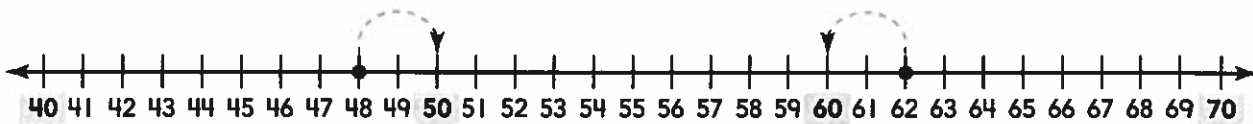
about _____ fish

Take Home Activity Ask your child to use the number line for Exercise 2 and describe how to estimate the sum of $215 + 398$.

Estimate Differences: 2-Digit Subtraction

Essential  How can you estimate the difference of two 2-digit numbers?

Estimate the difference of $62 - 48$.
Find the nearest ten for each number.



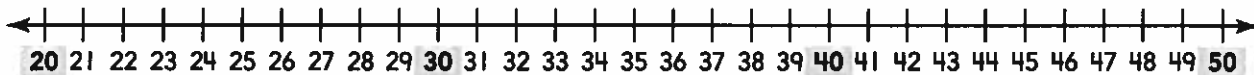
$$\underline{60} - \underline{50} = \underline{50}$$

An estimate of the difference is 10.

Check Understanding

Find the nearest ten for each number.
Subtract the tens to estimate.

1 Estimate the difference of $42 - 29$.



$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

An estimate of the difference is _____.



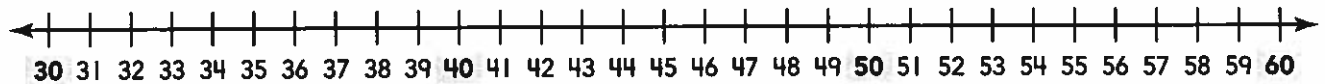
Turn and Talk How do you know which two tens a number is between?

On My Own

Find the nearest ten for each number.

Subtract the tens to estimate.

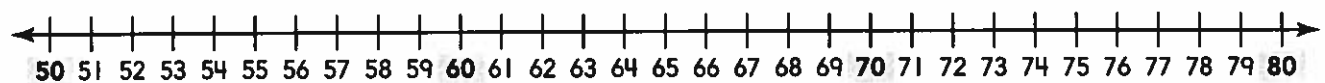
- 2**
- Estimate the difference of
- $51 - 39$
- .



$$\underline{\quad\quad} - \underline{\quad\quad} = \underline{\quad\quad}$$

An estimate of the difference is _____.

- 3**
- Estimate the difference of
- $79 - 56$
- .



$$\underline{\quad\quad} - \underline{\quad\quad} = \underline{\quad\quad}$$

An estimate of the difference is _____.


Solve. Write or draw to explain.

- 4**
- A farmer has 91 cows. 58 of the cows are in the barn. About how many of the cows are not in the barn?

about _____ cows

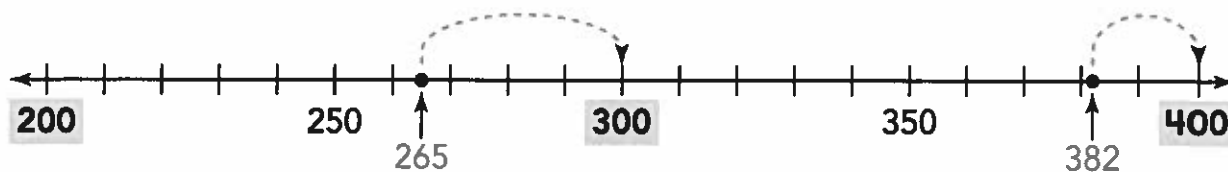
Take Home Activity Ask your child to use the number line for Exercise 2 and describe how to estimate the difference of $57 - 41$.

Estimate Differences: 3-Digit Subtraction

Essential  How can you estimate the difference of two 3-digit numbers?

Estimate the difference of $382 - 265$.

Find the nearest hundred for each number.



$$\underline{400} - \underline{300} = \underline{100}$$

An estimate of the difference is 100.

Check Understanding

Find the nearest hundred for each number.

Subtract the hundreds to estimate.

1 Estimate the difference of $674 - 590$.



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

An estimate of the difference is _____.

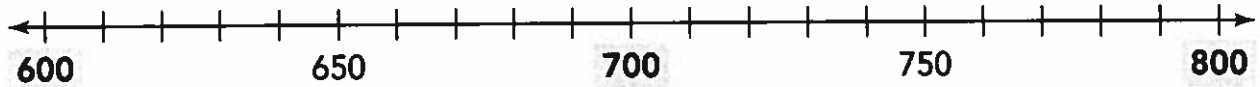


Turn and Talk How did you know which hundred is nearest to 674?

On My Own

Find the nearest hundred for each number.
Subtract the hundreds to estimate.

- 2** Estimate the difference of $791 - 612$.



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

An estimate of the difference is _____.

- 3** Estimate the difference of $487 - 309$.



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

An estimate of the difference is _____.

Solve. Write or draw to explain.

- 4** A mail carrier has 819 letters to deliver.
Then she delivers 687 letters. About how
many letters does she still have to deliver?

about _____ letters

Take Home Activity Ask your child to use the number line for Exercise 2 and describe how to estimate the difference of $786 - 611$.

Order 3-Digit Numbers

Essential  How does place value help you order 3-digit numbers?

You can order 249, 418, and 205 from least to greatest. First, compare the hundreds. Next, compare the tens and then the ones, if needed.

Hundreds	Tens	Ones
2	4	9
4	1	8
2	0	5

$$\begin{array}{c} \underline{205} \\ \text{least} \end{array} < \begin{array}{c} \underline{249} \\ \end{array} < \begin{array}{c} \underline{418} \\ \text{greatest} \end{array}$$

Check Understanding

Write the numbers in order from least to greatest.

1

672
515
532

_____ < _____ < _____

2

787
683
564

_____ < _____ < _____



Turn and Talk Do you always need to compare the ones digits when you order numbers? Explain.

On My Own

Write the numbers in order from least to greatest.

3

359
715
608

_____ < _____ < _____

4

359
715
608

_____ < _____ < _____

5

343
341
348

_____ < _____ < _____

6

165
746
764

_____ < _____ < _____

- 7 Brenda, Jean, and Pam play a video game. Brenda scores the highest. Jean scores the lowest.

Brenda	863
Jean	767
Pam	?

On the line, write a 3-digit number that could be Pam's score.

767 < _____ < 863


Take Home Activity Write three 3-digit numbers. Have your child tell you how to order the numbers from least to greatest.

Equal Groups of 2

Essential  How can you find the total number in equal groups of 2?

The pet store has 3 fishbowls in the window.
There are 2 goldfish in each bowl.
How many goldfish are there in all?


Make 3 groups of 2 counters.


 _____ groups of _____ is _____ in all.

I can count the equal groups by twos—2, 4, 6—to find how many in all.

Check Understanding

Complete the sentence to show how many in all.

1 
 _____ groups of _____ is _____ in all.

2 
 _____ groups of _____ is _____ in all.

3 
 _____ groups of _____ is _____ in all.



Turn and Talk How can you use counters to find $2 + 2 + 2 + 2 + 2$?

On My Own

Complete the sentence to show how many in all.



_____ groups of _____ is _____ in all.



_____ groups of _____ is _____ in all.



_____ groups of _____ is _____ in all.



_____ groups of _____ is _____ in all.

Solve. Write or draw to explain.

- 8 Coach Baker keeps 2 basketballs in each bin. There are 5 bins. How many basketballs are stored in the bins?

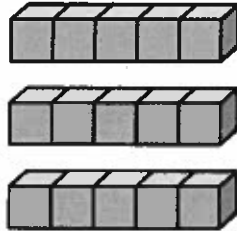
_____ basketballs

Take Home Activity Have your child draw groups of two Xs and tell you how to find how many there are in all.

Equal Groups of 5

Essential  How can you find the total number in equal groups of 5?

Luke made 3 cube trains.
He connected 5 cubes in
each train. How many
cubes did he use in all?



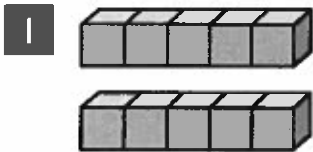
I can count the equal groups by fives—5, 10, 15—to find how many in all.

Make 3 groups of 5 cubes.

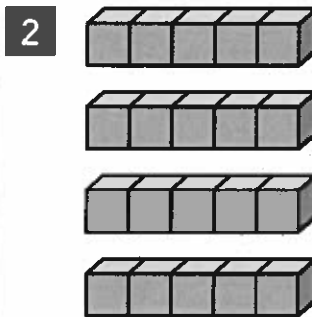
3 groups of 5 is 15 in all.

Check Understanding

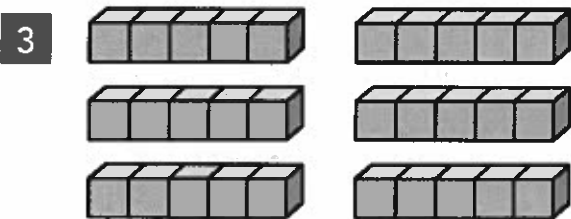
Complete the sentence to show how many in all.



_____ groups of _____
is _____ in all.



_____ groups of _____
is _____ in all.



_____ groups of _____ is
_____ in all.



Turn and Talk How can you use addition to find how many in all in Exercise 2?

On My Own

Complete the sentences to show how many in all.

4

_____ groups of _____
is _____ in all.

5

_____ groups of _____
is _____ in all.

6

_____ groups of _____
is _____ in all.

Solve. Write or draw to explain.

7 Gina fills 6 pages of her photo album. She puts 5 photos on each page. How many photos does Gina put in her album?

_____ photos

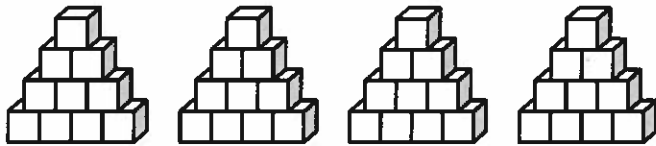
Take Home Activity Place your hands next to your child's hands. Ask how many groups of 5 fingers. Have your child tell you how to find how many in all. How many fingers in all?

Equal Groups of 10

Essential ? How can you find the total number in equal groups of 10?

There are 4 packs of juice. Each pack has 10 juice boxes. How many juice boxes are there in all?

Make 4 groups of 10 cubes.



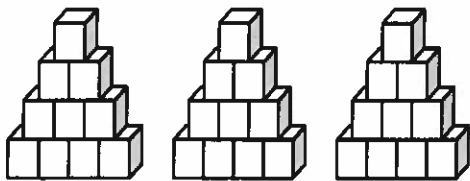
4 groups of 10 is 40 in all.

I can count the equal groups by tens—10, 20, 30, 40—to find how many in all.

Check Understanding

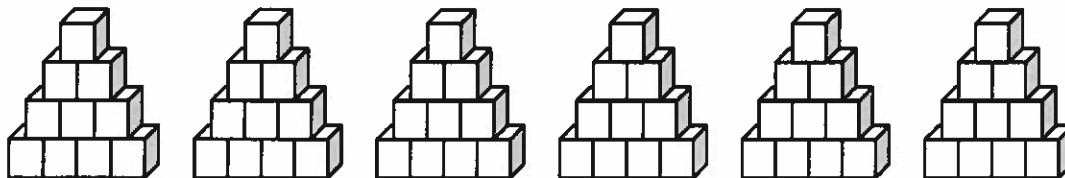
Complete the sentence to show how many in all.

1



_____ groups of _____ is _____ in all.

2



_____ groups of _____ is _____ in all.

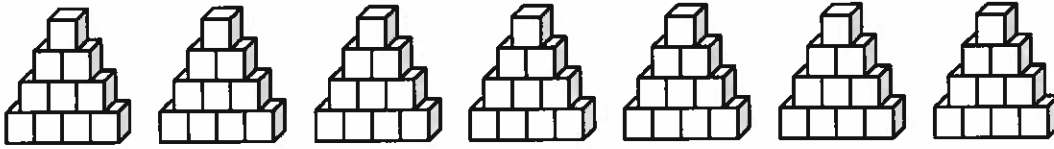


Turn and Talk How many groups of ten are in 70? Explain.

On My Own

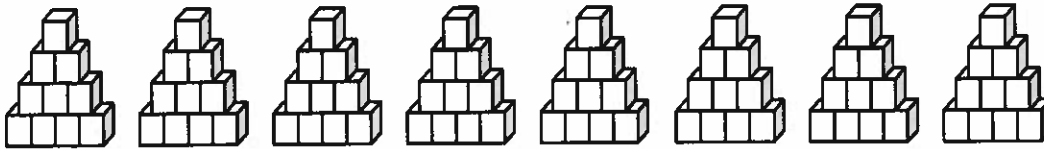
Complete the sentence to show how many in all.

3



_____ groups of _____ is _____ in all.

4



_____ groups of _____ is _____ in all.

5



_____ groups of _____ is _____ in all.

Solve. Write or draw to explain.

- 6 To count his pennies, Travis puts 10 pennies in a stack. He makes 4 stacks. How many pennies does Travis have?

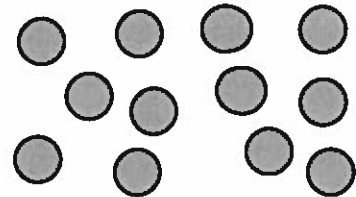
_____ pennies

Take Home Activity Give your child 30 pieces of macaroni or other small objects. Have your child make groups of 10. Ask how many groups there are. Ask your child to tell you how to find how many in all.

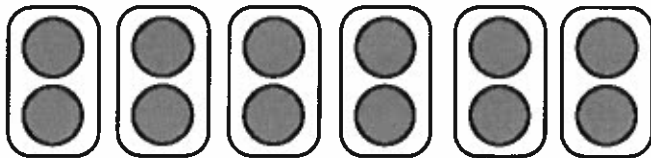
Size of Shares

Essential  How can you place items in equal groups?

When you **divide**, you place items in equal groups. Joel has 12 carrots. There are 6 rabbits. Each rabbit gets the same number of carrots. How many carrots does each rabbit get?



Place 12 counters in 6 equal groups.



2 counters in each group

So, each rabbit gets 2 carrots.

Check Understanding

Use counters. Draw to show your work.
Write how many in each group.

1 Place 10 counters in 2 equal groups.

_____ counters in each group

2 Place 6 counters in 3 equal groups.

_____ counters in each group



Turn and Talk How did you know how many counters to place in each group for Exercise 2?

On My Own

Use counters. Draw to show your work.
Write how many in each group.

- 3** Place 9 counters in 3 equal groups.

_____ counters in each group

- 4** Place 12 counters in 2 equal groups.

_____ counters in each group

- 5** Place 16 counters in 4 equal groups.

_____ counters in each group

Solve. Draw to show your work.

- 6** Mrs. Peters divides 6 orange slices between 2 plates. She wants to have 4 orange slices on each plate. How many more orange slices does she need?

_____ more orange slices

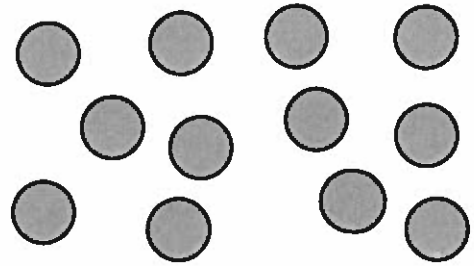
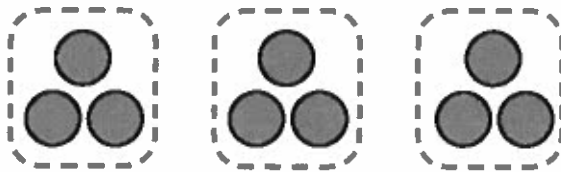
Take Home Activity Ask your child to place 15 pennies into 3 equal groups, and then tell how many pennies are in each group.

Number of Equal Shares

Essential  How can you find the number of equal groups that items can be placed into?

There are 12 cookies. 3 cookies fill a snack bag.
How many snack bags can be filled?

Place 12 counters in groups of 3.



4 groups

So, 4 snack bags can be filled.

Check Understanding

Use counters. Draw to show your work. Write how many groups.

1 Place 8 counters in groups of 4.

_____ groups

2 Place 10 counters in groups of 2.

_____ groups



Turn and Talk Describe how you could find the number of groups of 2 you could make with 12 counters.

On My Own

Use counters. Draw to show your work.
Write how many groups.

- 3 Place 4 counters in groups of 2.

_____ groups

- 4 Place 12 counters in groups of 4.

_____ groups

- 5 Place 15 counters in groups of 3.

_____ groups

Draw to show your work.

- 6 Some children want to play a board game. There are 16 game pieces. Each player needs to have 4 pieces. How many children can play?

_____ children

Take Home Activity Use small items such as pennies or cereal. Have your child find out how many groups of 5 are in 20.

Solve Problems with Equal Shares

Essential  How can you solve word problems that involve equal shares?

You can draw a picture to help you solve problems with equal shares.

There are 10 marbles in each bag.
How many marbles are in 3 bags?



_____ groups of _____ is _____ in all.

There are _____ marbles.

Check Understanding

Solve. Draw or write to show what you did.

- 1** There are 5 oranges in each sack. How many oranges are in 4 sacks?

_____ oranges

- 2** Sandy can plant 2 seeds in a pot. How many pots will Sandy need in order to plant 6 seeds?

_____ pots



Turn and Talk Explain how you solved Exercise 2.

On My Own

Solve. Draw to show what you did.

- 3 Ben gives each friend 2 crackers. How many crackers does he need for 6 friends?

_____ crackers


- 4 Mrs. Green can pack 5 books in a box. How many boxes will she need in order to pack 15 books?

_____ boxes

- 5 Franco used 12 connecting cubes to build towers. All the towers are the same height. Draw a picture to show the towers he could have built.

Take Home Activity Ask your child to make up a word problem about 3 boxes of toys with 3 toys in each box. Have your child tell you how to solve the problem.

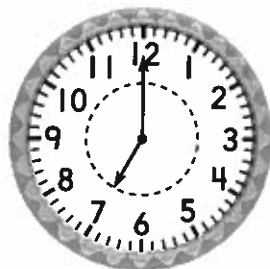
Hour Before and Hour After

Essential  How do you tell the time 1 hour before and 1 hour after a given time?

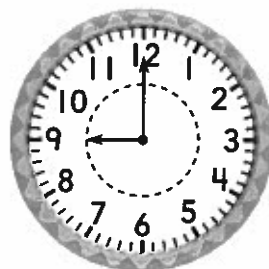
For these times, the minute hand points to the same place. The hour hands point to different numbers.



The time is
8:00



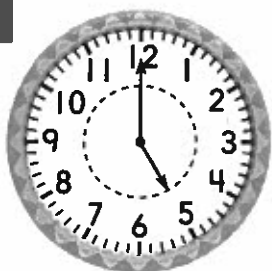
1 hour before
7:00



1 hour after
9:00

Check Understanding

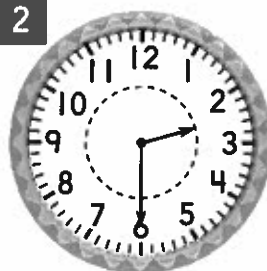
Write the time shown on the clock. Then write the time 1 hour before and 1 hour after.

1

_____ 1 hour before



_____ 1 hour after

2

_____ 1 hour before



_____ 1 hour after

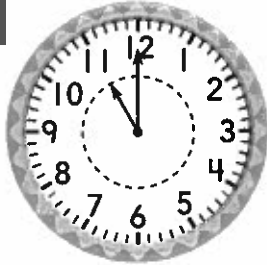


Turn and Talk How are the hands on a clock that shows 8 o'clock the same as the hands on a clock 1 hour after? How are they different?

On My Own

Write the time shown. Then write the time
1 hour before and 1 hour after.

3

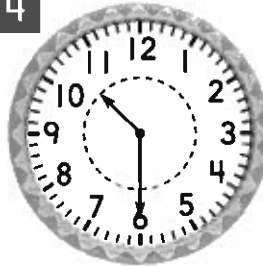


1 hour before



1 hour after

4

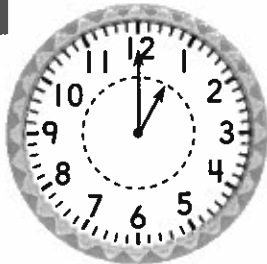


1 hour before



1 hour after

5

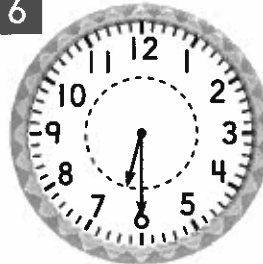


1 hour before



1 hour after

6



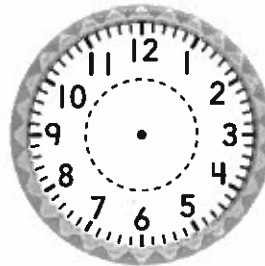
1 hour before



1 hour after

7

Tim feeds the cat 1 hour after 7:00.
Draw the hour hand and the
minute hand to show 1 hour
after 7:00. Then write the time.



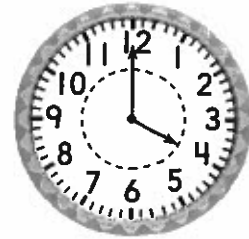
Tim needs to feed the cat at _____.

Take Home Activity Ask your child what the time will be 1 hour after 3:30. What time was it 1 hour before 3:30? Have your child tell you how he or she knows.

Elapsed Time in Hours

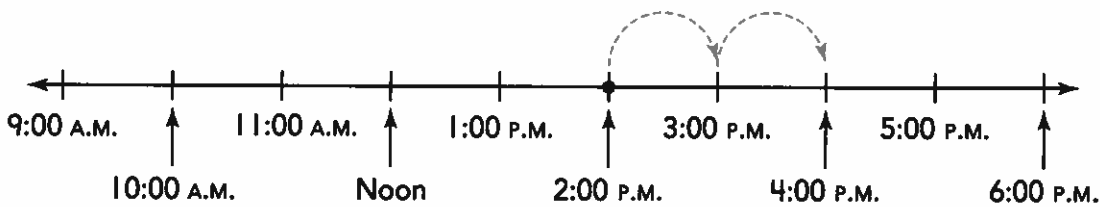
Essential  How do you find the number of hours between two times?

Baseball practice starts at 2:00.
Everyone leaves at 4:00. How long does
baseball practice last? Use the timeline
to count how many hours passed from
2:00 P.M. to 4:00 P.M.



_____ hours

Starts at 2:00 **Ends at 4:00**



Check Understanding

Use the timeline above. Solve.

- 1** The game starts at 3:00 P.M.
It ends at 6:00 P.M. How long
does the game last?

_____ hours

- 2** The plane leaves at 10:00
A.M. It arrives at 2:00 P.M.
How long is the plane trip?

_____ hours



Turn and Talk Describe how you used the timeline for Exercise 2.

On My Own

Use the timeline below. Solve.



- 3** Paul's baby sister goes to sleep at 4:00 P.M. She wakes up at 6:00 P.M. How long does the baby sleep?

_____ hours

- 4** Julia goes to a friend's house at noon. She comes home at 3:00 P.M. How long is Julia gone?

_____ hours

- 5** Jeff starts raking leaves at 11:00 A.M. He stops at 1:00 P.M. How long does Jeff rake leaves?

_____ hours

- 6** Mom and Carrie arrive at the shopping mall at 1:00 P.M. They leave at 5:00 P.M. How long are they at the mall?

_____ hours

Solve. Draw or write to explain.

- 7** Mr. Norton writes the time for classes on the board. How long will reading class last?

_____ hours

Class	Time
Math	8:30 A.M.
Reading	9:30 A.M.
Music	11:30 A.M.

Take Home Activity Ask your child how much time passes between 4:30 and 7:30. Have your child explain how he or she arrived at the answer.

Elapsed Time in Minutes

Essential ? How do you find the number of minutes between two times?

You can use subtraction if the times are within the same hour.

Ken starts cleaning his room at 3:15 P.M. He finishes at 3:35 P.M. How long does it take Ken to clean his room?

$$\begin{array}{r} 35 \\ - 15 \\ \hline 20 \end{array}$$

So it takes Ken 20 minutes.



Starts at 3:15 P.M. Ends at 3:35 P.M.

Check Understanding

Subtract to solve. Show your work.

- 1 Leah starts eating lunch at 12:10 P.M. She finishes at 12:25 P.M. How long does it take for Leah to eat lunch?

_____ minutes

- 2 Kwan gets on the school bus at 8:10 A.M. He gets to school at 8:55 A.M. How long is Kwan's bus ride?

_____ minutes



Turn and Talk How could you check your answers by looking at a clock?

On My Own

Subtract to solve. Show your work.

- 3 Mrs. Hall puts a pizza in the oven at 6:10 P.M. She takes it out at 6:30 P.M. How long does the pizza bake?

_____ minutes

- 4 The reading test starts at 1:10 P.M. Everyone must stop at 1:25 P.M. How long do the children have to take their test?

_____ minutes

- 5 Kelly starts drawing at 8:15 P.M. She finishes her picture at 8:40 P.M. How long does Kelly draw?

_____ minutes

- 6 Tony starts reading at 4:30 P.M. He stops reading at 4:45 P.M. How long does Tony read?

_____ minutes

Show how to use subtraction to solve.

- 7 Mr. West gets to the bus stop at 9:05 A.M. He looks at the bus schedule.

How long will Mr. West need to wait for a bus?

_____ minutes

Bus Arrival Times


8:30 A.M.

9:30 A.M.

10:30 A.M.

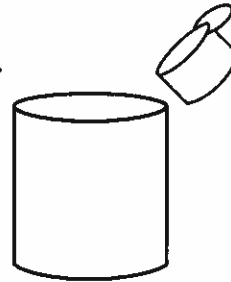
Take Home Activity Have your child track how many minutes it would take to do math homework if he or she starts at 5:15 P.M. and stops at 5:45 P.M.

Capacity • Nonstandard Units

Essential  How can you measure how much a container holds?



Use a scoop and rice to estimate and measure how much a can holds.

- Estimate how many scoops the can holds.
- Fill a scoop with rice or water. Pour it into the can.
- Repeat until the can is full. Keep track of the number of scoops.



Check Understanding

How many scoops does the container hold? Estimate. Then measure.




	Container	Estimate	Measure
1	 mug	about _____ scoops	about _____ scoops
2	 vase	about _____ scoops	about _____ scoops



Turn and Talk Explain how you can tell which of the containers on this page is the largest.

On My Own

How many scoops does the container hold?
Estimate. Then measure.

Container	Estimate	Measure
3  jar	about _____ scoops	about _____ scoops
4  milk carton	about _____ scoops	about _____ scoops
5  bowl	about _____ scoops	about _____ scoops

Solve.

- 6** The red bowl holds 5 scoops of rice. The blue bowl holds twice as much rice as the red bowl. How many scoops of rice do the two bowls hold in all?

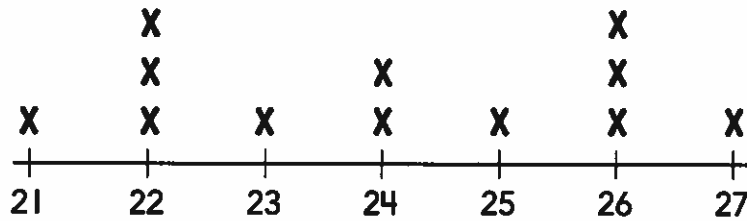
_____ scoops in all

Take Home Activity Have your child use a paper cup to estimate how much various containers hold. Then measure to check his or her estimate.

Describe Measurement Data

Essential  What measurement data can a line plot show?

A line plot shows data on a number line. Each X on this line plot stands for the length of 1 desk.



Lengths of Our Desks in Inches

12 desks were measured.

Two desks are 24 inches long.

The longest desk is 27 inches long.

The shortest desk is 21 inches long.

Check Understanding

Write 3 more sentences to describe what the line plot above shows.

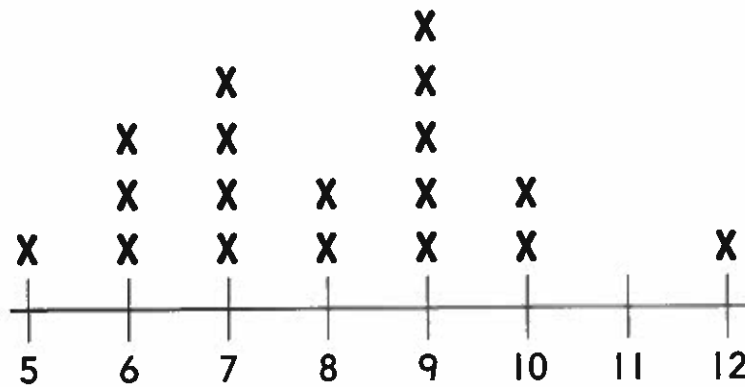
1 _____

2 _____

3 _____



Turn and Talk Suppose you measured another desk. If the desk was 23 inches long, how could you show this on the line plot above?

On My Own**Lengths of Our Classroom Books in Inches**

Use the line plot to answer the questions.

4 How many books are 9 and 10 inches in length?

_____ books

5 What is the difference in length between the shortest and longest book?

_____ inches

Write another question you can answer by looking at the line plot. Answer your question.

6 Question _____

Answer _____

Take Home Activity Ask your child to explain how to read the line plot on this page.

Fraction Models: Thirds and Sixths

Essential ? How can you identify thirds and sixths?



3 equal parts or 3 thirds

6 equal parts or

6 sixths



1 part of 3 equal parts or

1 part of 6 equal parts or

1 third

1 sixth



Turn and Talk How are 3 thirds and 6 sixths alike?

Check Understanding

Color the strips. Show two different ways to show $\frac{1}{3}$.



Color the strips. Show two different ways to show $\frac{1}{6}$.



On My Own

Color the strips. Show two different ways to show 2 thirds.

5

--	--	--

6

--	--	--

Color the strips. Show two different ways to show 2 sixths.

7

--	--	--	--	--	--

8

--	--	--	--	--	--

Color the strips. Show two different ways to show 3 sixths.

9

--	--	--	--	--	--

10

--	--	--	--	--	--

Solve. Write or draw to explain.

- 11 A sub sandwich is cut into sixths. Tim eats two parts of the sandwich. How many parts are left?

_____ parts left

Take Home Activity Have your child draw a picture that shows a slice of cheese divided into thirds.

Fraction Models: Fourths and Eighths

Essential ? How can you identify fourths and eighths?



4 equal parts or 4 fourths

8 equal parts or
8 eighths



1 part of 4 equal parts or
1 fourth

1 part of 8 equal parts or
1 eighth

Check Understanding

Color the strips. Show two different ways to show 1 fourth.



Color the strips. Show two different ways to show 1 eighth.



Turn and Talk How are 4 fourths and 8 eighths alike?

On My Own

Color the strips. Show two different ways to show 2 fourths.

5

--	--	--	--

6

--	--	--	--

Color the strips. Show two different ways to show 3 eighths.

7

--	--	--	--	--	--	--	--

8

--	--	--	--	--	--	--	--	--	--

Color the strips. Show two different ways to show 5 eighths.

9

--	--	--	--	--	--	--	--

10

--	--	--	--	--	--	--	--	--	--

Solve. Write or draw to explain.

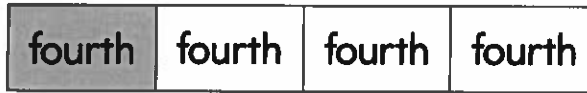
- 11** A loaf of bread is cut into eighths. Jake uses 2 parts to make his lunch. Fran uses 3 parts to make her lunch. How many parts of the loaf are left?

_____ parts left

Take Home Activity Have your child draw a picture to show a slice of cheese divided into fourths.

Compare Fraction Models

Essential  How can you use fraction models to make comparisons?



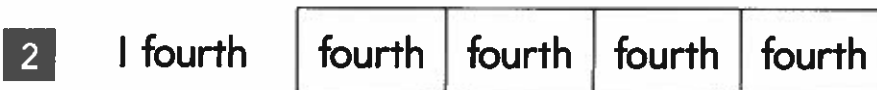
1 fourth  1 half

Check Understanding

Color to show the fractions. Write $<$, $=$, or $>$.



1 half  2 fourths



1 fourth  1 eighth



Turn and Talk Look at the strips above. Is 1 half greater than or less than 3 fourths? How do you know?

Name _____

On My Own

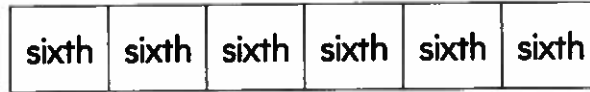
Color to show the fractions. Write $<$, $=$, or $>$.

3

1 third



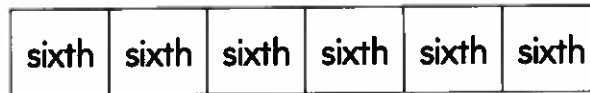
1 sixth



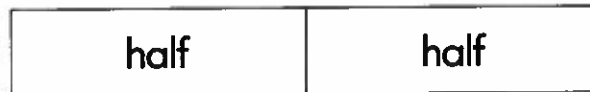
1 third ○ 1 sixth

4

3 sixths



1 half



3 sixths ○ 1 half

Solve. Draw to show your answer.

5

Barry cut a cheese stick into halves and ate a half. Marcy cut a cheese stick into fourths and ate a fourth. Which child ate more cheese?

_____ ate more.

Take Home Activity Ask your child to draw a picture that shows a square divided into fourths.