ENTERING GRADE THREE
2022 - 2023

June 2022

Dear Parents:

Students entering grade 3 are required to read two books from the attached list. The list provided has been carefully compiled by the Reading Curriculum Committee. All lists have several authors; if the author has an asterisk (*), it indicates that a child may choose any book by that author. Parents who choose to purchase the books will find most titles at local bookstores.

A graphic organizer should be completed on a book from column A. This is due the first full week of September. The second book from column B, should be read prior to school starting in September. Students will complete a project based on the book from column B, in early September. Assignments will be graded based on the information required on the forms plus mechanics, neatness, and quality. These grades will be included in the first trimester reading grade.

We encourage you and your child to visit the library frequently. The reading of these and other books is a way to establish good reading habits, and build a strong vocabulary.

Sincerely,

The Third Grade Teachers

SAINT URSULA SCHOOL

Column A	Column B
Column A: Must be read & complete graphic organizer over the summer.	**Column B: Summer reading book is to be read at home. Students need the book in September to complete an in class project.**
	de Paola, Tomie *Legend of Bluebonnet*
Fritz, Jean *George Washington's Mother*	
	Hoban, Russell *Best Friends for Frances*
Lester, Helen *Porcupine Named Fluffy*	
	Osborne, Mary Pope *Magic Tree House* *Dolphins at Daybreak*
Munsch, Robert *Love You Forever*	
Noble, Trinka Hakes *The Day Jimmy's Boa Ate the Wash*	**Steig, William** *Brave Irene*
Preller, James Any *Jigsaw Jones Mystery* Chapter Book	**Diaz, Junot** *Islandborn*
*Rylant, Cynthia *When I Was Young in the Mountains*	**Tavares, Matt** *Growing Up Pedro*

Column A Continued	Column B Continued
*Zion, Gene *No Roses for Harry* **Krishnaswami, Uma** *Book Uncle and Me* **Johnson, Jen** *Seeds of Change* **Best, Cari** *My Three Best Friends and Me, Zulay* ***students may read any book by that author**	**Say, Allen** *Grandfather's Journey*

Name: _____

fiction story

Title: _____

_____

_____

Author: _____

_____

Characters: _____

_____

_____

_____

Setting: _____

_____

Problem: _____

_____

Solution: _____

_____

Opinion: _____

_____

Find Sums on an Addition Table

Essential Question How do you find sums on an addition table?

Model and Draw

$3 + 4 = ?$

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 row →	3	4	5	6	⑦
4	4	5	6	7	8

Share and Show

Math Board

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

Math Talk Describe a pattern in the addition table.
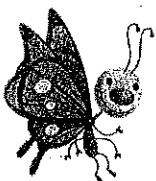
On Your Own

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	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10	
2	2	3	4	5	6	7	8	9	10		12
3	3	4	5	6	7	8	9	10		12	
4	4	5	6	7	8	9	10		12		
5	5	6	7	8	9	10		12			15
6	6	7	8	9	10		12			15	16
7	7	8	9	10		12			15	16	17
8	8	9	10		12			15	16	17	18
9	9	10		12			15	16	17	18	19
10	10		12			15	16	17	18	19	20

PROBLEM SOLVING REAL WORLD

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.

P262 two hundred sixty-two

Estimate Sums: 2-Digit Addition

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

Model and Draw

Estimate the sum of 24 + 38.
Find the nearest ten for each number.
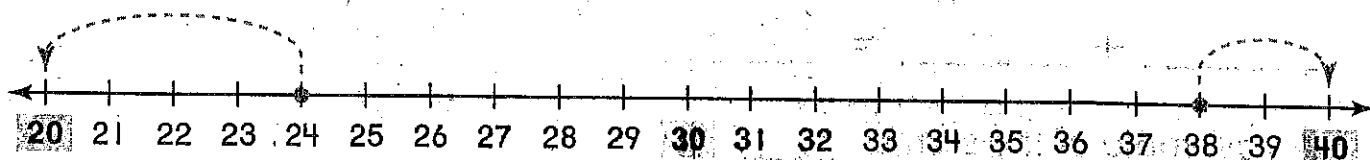
$$\underline{\quad 20 \quad} + \underline{\quad 40 \quad} = \underline{\quad 60 \quad}$$

An estimate of the sum is __60__ .

Share and Show   Math Board

Find the nearest ten for each number.

1. Estimate the sum of 18 + 29.

Add the tens to estimate.

$$\underline{\qquad} + \underline{\qquad} = \underline{\qquad}$$

An estimate of the sum is _____ .
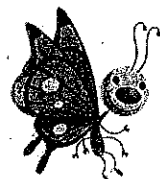
Math Talk   How did you know which ten is nearest to 18?

Getting Ready for Grade 3

On Your Own

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

2. Estimate the sum of $13 + 28$.
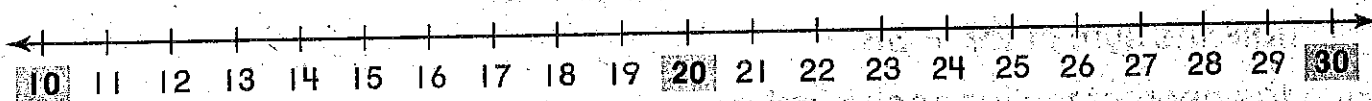
$$\begin{array}{ccccccccccccccccccccc} \dashv\!\!\!-\!\!\!+\!\!\!-\!\!\!+\!\!\!-\!\!\!+\!\!\!-\!\!\!+\!\!\!-\!\!\!+\!\!\!-\!\!\!+\!\!\!-\!\!\!+\!\!\!-\!\!\!+\!\!\!-\!\!\!+ \end{array}$$

| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |

_____ + _____ = _____

An estimate of the sum is _____.

---

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

| 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |

_____ + _____ = _____
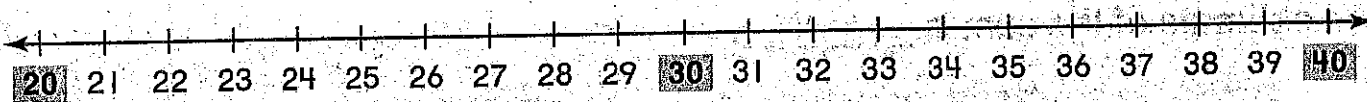
An estimate of the sum is _____.

PROBLEM SOLVING REAL WORLD

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

Model and Draw

Estimate the sum of 189 + 284.
Find the nearest hundred for each number.

100   150   **200**   250   **300**
                          ↑   ↑
                         189   284
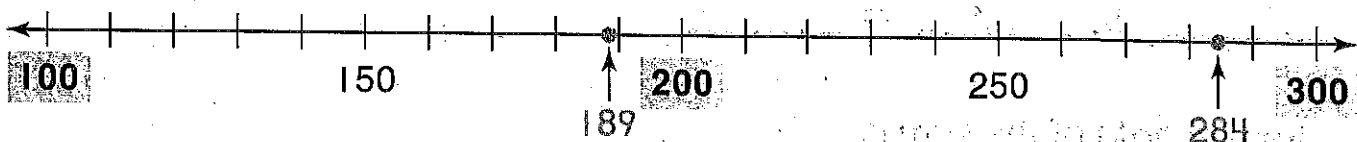
$$\underline{200} + \underline{300} = \underline{500}$$

An estimate of the sum is __500__.

Share and Show [Math Board]

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

1. Estimate the sum of 229 + 386.

200   250   **300**   350   **400**

$$\underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$

An estimate of the sum is _____.

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

On Your Own

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

2. Estimate the sum of 324 + 218.

```
←+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——→
 200           250            300              350            400
```

_____ + _____ = _____

An estimate of the sum is _____.

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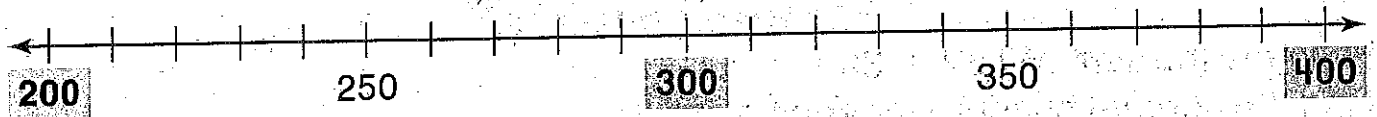
3. Estimate the sum of 468 + 439.

```
←+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——→
 300           350            400              450            500
```

_____ + _____ = _____

An estimate of the sum is _____.

PROBLEM SOLVING REAL WORLD

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

Name _____

Estimate Differences: 2-Digit Subtraction

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

Model and Draw

Estimate the difference of 62 − 48.
Find the nearest ten for each number.
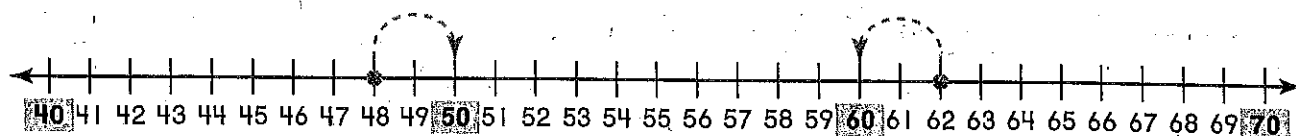
_60_ − _50_ = _10_

An estimate of the difference is __10__.

Share and Show

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

1. Estimate the difference of 42 − 29.

_____ − _____ = _____
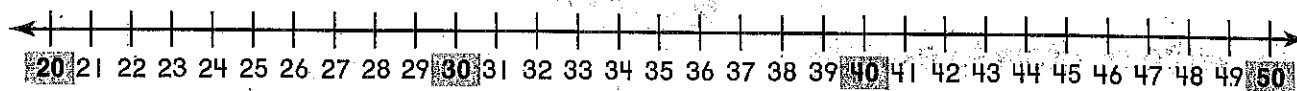
An estimate of the difference is _____.
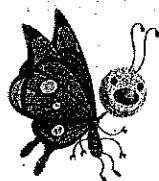
Math Talk How do you know which two tens a number is between?

On Your Own

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

2. Estimate the difference of 51 − 39.
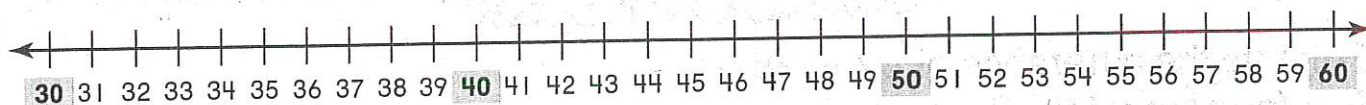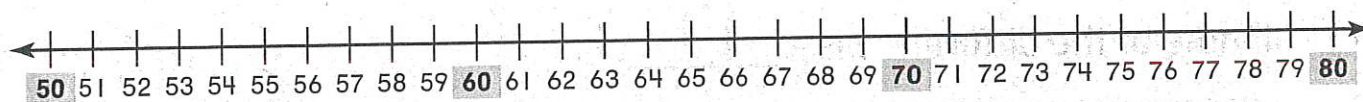
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60

_____ − _____ = _____

An estimate of the difference is _____.

3. Estimate the difference of 79 − 56.

50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

_____ − _____ = _____

An estimate of the difference is _____.

PROBLEM SOLVING REAL WORLD

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

Model and Draw

Estimate the difference of 382 − 265.
Find the nearest hundred for each number.

200   250   265 ↑   **300**   350   382 ↑   **400**
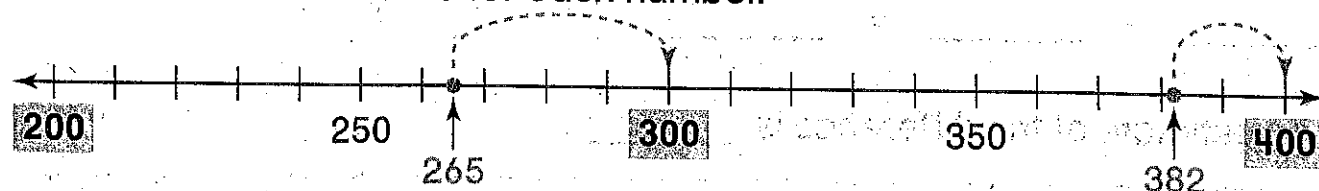
$$\underline{400} - \underline{300} = \underline{100}$$

An estimate of the difference is ___100___.

Share and Show
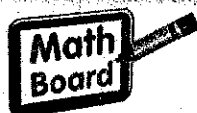
Math
Board

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

1. Estimate the difference of 674 − 590.

500   550   **600**   650   **700**

$$\underline{\hphantom{000}} - \underline{\hphantom{000}} = \underline{\hphantom{000}}$$

An estimate of the difference is _____.
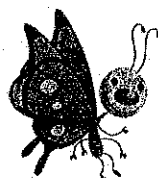
Math Talk How did you know which
hundred is nearest to 674?

On Your Own

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

2. Estimate the difference of 791 − 612.

```
←+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——→
600            650            700            750            800
```

_____ − _____ = _____
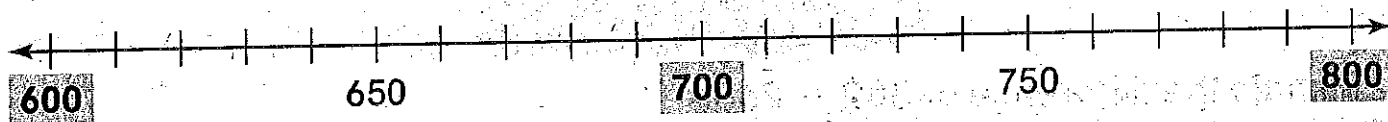
An estimate of the difference is _____.

3. Estimate the difference of 487 − 309.

```
←+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——→
300            350            400            450            500
```

_____ − _____ = _____

An estimate of the difference is _____.

PROBLEM SOLVING REAL WORLD

Solve. Write or draw to explain.

4. A mail carrier had 819 letters to deliver.
   Then she delivered 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.

P270 two hundred seventy

Order 3-Digit Numbers

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

Model and Draw

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

I compare the hundreds. 249 and 205 are both less than 418.

Which is less, 249 or 205? I compare the tens. 205 is less than 249, so 205 is the least.

$$\underline{205} < \underline{249} < \underline{418}$$
least   greatest

Share and Show

Math Board
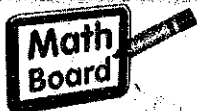
Write the numbers in order from least to greatest.

1.

```
6 7 2
5 1 5
5 3 2
```

___ < ___ < ___

2.

```
7 8 7
6 8 3
5 6 4
```

___ < ___ < ___
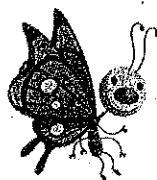
Math Talk Do you always need to compare the ones digits when you order numbers? Explain.

On Your Own

Write the numbers in order from least to greatest.

3.

| 3 5 9 |
| 7 1 5 |
| 6 0 8 |

___ < ___ < ___

4.

| 9 5 9 |
| 9 1 5 |
| 9 0 8 |

___ < ___ < ___

5.

| 3 4 3 |
| 3 4 1 |
| 3 4 8 |

___ < ___ < ___

6.

| 1 6 5 |
| 7 4 6 |
| 7 6 4 |

___ < ___ < ___

PROBLEM SOLVING REAL WORLD

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

Brenda	8 6 3
Jean	7 6 7
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.

✓ Checkpoint

Concepts and Skills

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		7		9	
1	1	2	3	4	5		7		9		11
2	2	3	4	5		7		9		11	12
3	3	4	5		7		9		11	12	13
4	4	5		7		9		11	12	13	14
5	5		7		9		11	12	13	14	15

Find the nearest ten.

2. Estimate the sum of 24 and 36.

```
←——|——|——|——|——|——|——|——|——|——|——|——|——|——|——|——|——|——|——|——|——|——→
   20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
```

_____ + _____ = _____
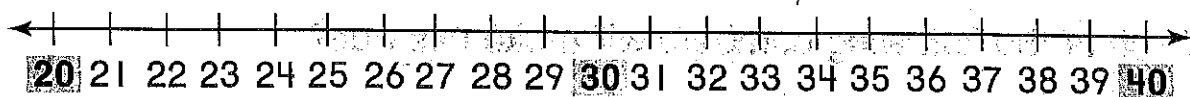
An estimate of the sum is _____.

Find the nearest hundred.

3. Estimate the sum of 285 and 122.

```
←——|——|——|——|——|——|——|——|——|——|——|——|——|——|——|——|——|——|——|——|——|——→
   100        150        200        250        300
```

_____ + _____ = _____

An estimate of the sum is _____.

Find the nearest ten.

4. Estimate the difference of $72 - 59$.

50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

_____ − _____ = _____
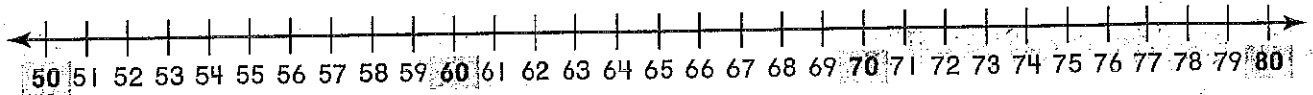
An estimate of the difference is _____.

Find the nearest hundred.

5. Estimate the difference of 792 and 619.

600   650   700   750   800

_____ − _____ = _____

An estimate of the difference is _____.

6. Which of the following numbers will make this true?

$350 < 413 <$ _____.

○ 403

○ 398

○ 430

○ 331

Equal Groups of 2

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

Model and Draw

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.

I can count the equal groups by twos—2, 4, 6—to find how many in all.
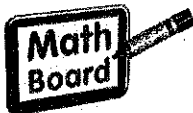
___3___ groups of ___2___ is ___6___ in all.
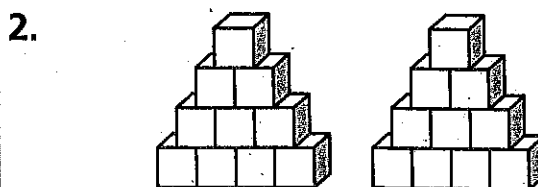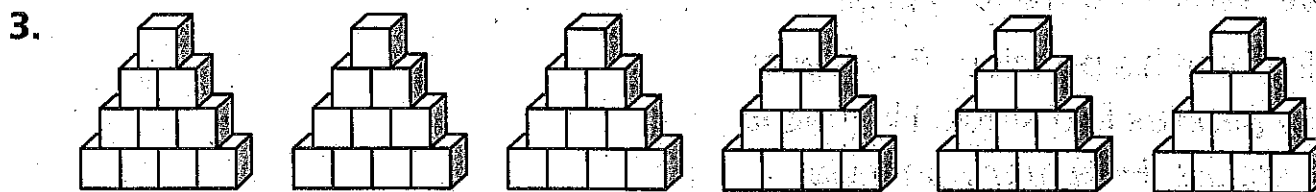
Share and Show

Math Board

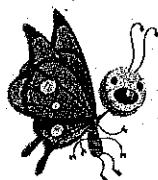Complete the sentence to show how many in all.

1.

_____ groups of _____ is _____ in all.

2.

_____ groups of _____ is _____ in all.

3.

_____ groups of _____ is _____ in all.

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

Getting Ready for Grade 3

On Your Own

Complete the sentence to show how many in all.

4.

_____ groups of _____ is _____ in all.

5.

_____ groups of _____ is _____ in all.
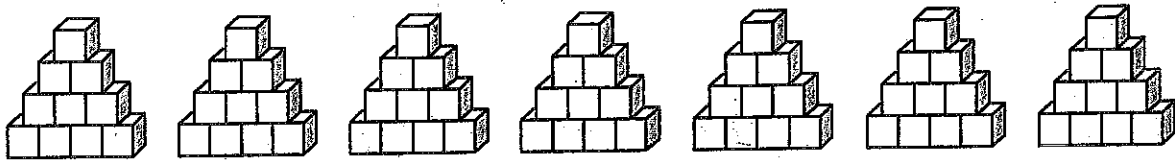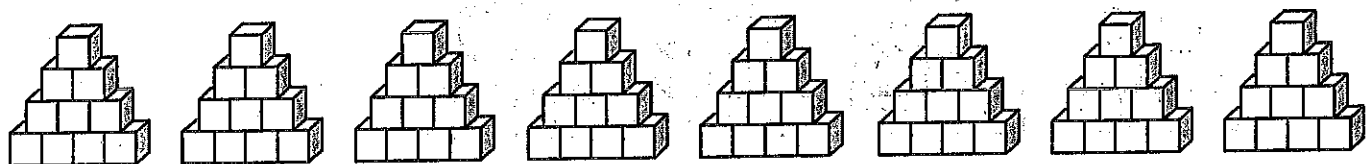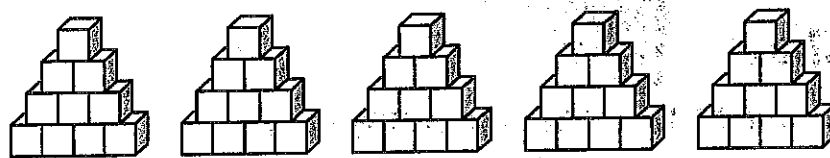
6.

_____ groups of _____ is _____ in all.

7.

_____ groups of _____ is _____ in all.

PROBLEM SOLVING REAL WORLD

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

Model and Draw

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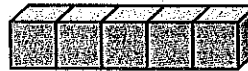
Make 3 groups of 5 cubes.

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

__3__ groups of __5__ is __15__ in all.

Share and Show

Complete the sentence to show how many in all.

1.

_____ groups of _____ is _____ in all.

2.

_____ groups of _____ is _____ in all.

3.
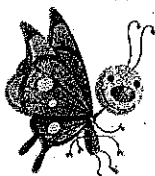
_____ groups of _____ is _____ in all.

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

On Your Own

Complete the sentences to show how many in all.
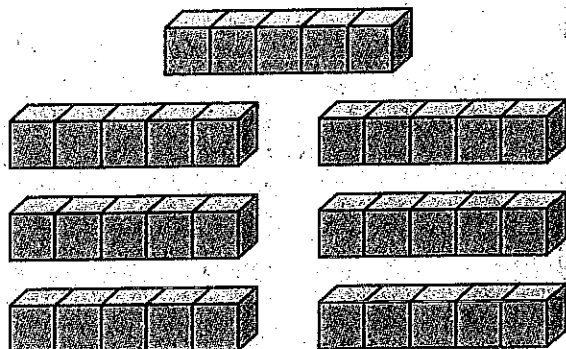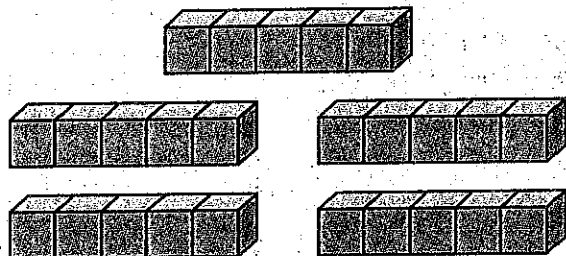
4.

_____ groups of _____ is _____ in all.

5.

_____ groups of _____ is _____ in all.

6.
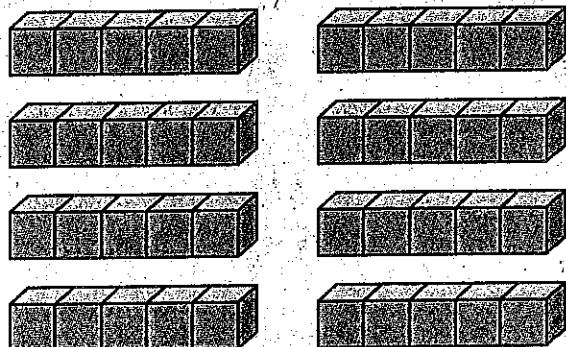
_____ groups of _____ is _____ in all.

PROBLEM SOLVING REAL WORLD

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

Model and Draw

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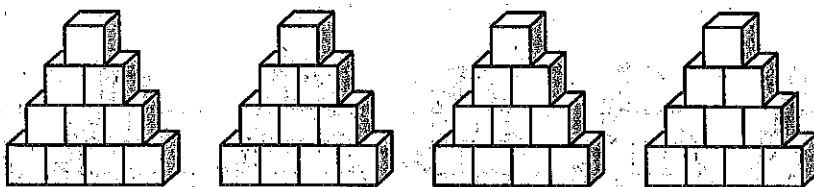
> I can count the equal groups by tens—10, 20, 30, 40—to find how many in all.

____4____ groups of ___10___ is ___40___ in all.

Share and Show

Math Board

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.

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

On Your Own

Complete the sentence to show how many in all.

4.

_____ groups of _____ is _____ in all.

5.

_____ groups of _____ is _____ in all.

6.

_____ groups of _____ is _____ in all.

PROBLEM SOLVING REAL WORLD

Solve. Write or draw to explain.

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

_____ pennies

Name _____

Size of Shares

Essential Question How can you place items in equal groups?

Model and Draw

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?
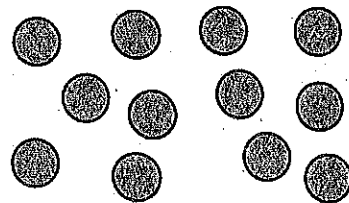
Place 12 counters in 6 equal groups.
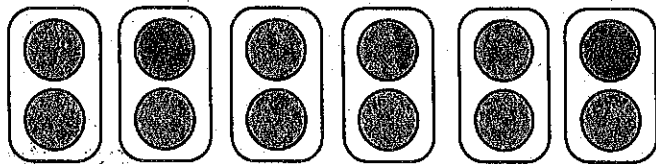
_2_ counters in each group   So, each rabbit gets _2_ carrots.

Share and Show

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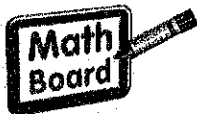
Use counters. Draw to show your work.
Write how many in each group.

1. Place 10 counters in 2 equal groups.

_____ counters in each group

2. Place 6 counters in 3 equal groups.

_____ counters in each group

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

On Your 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

PROBLEM SOLVING REAL WORLD

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

Number of Equal Shares

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

Model and Draw

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

Place 12 counters in groups of 3.
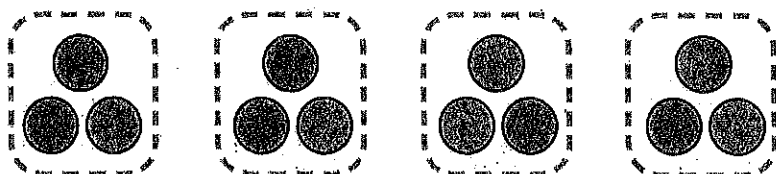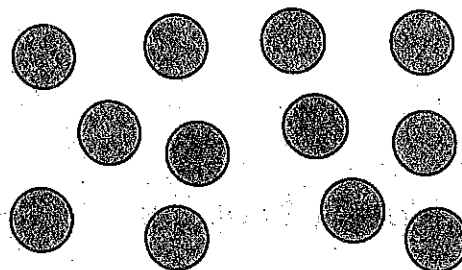
____4____ groups

So, ____4____ snack bags can be filled.

Share and Show
[Math Board]

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.
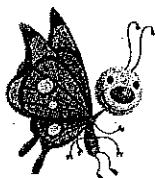
_____ groups

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

On Your 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

PROBLEM SOLVING REAL WORLD

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 Question: How can you solve word problems that involve equal shares?

Model and Draw

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?

10   10   10
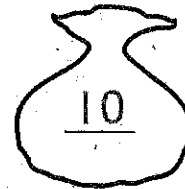
____3____ groups of __10__ is __30__ in all.

There are __30__ marbles.

Share and Show

Math Board

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
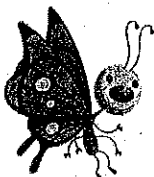
Math Talk Explain how you solved Exercise 2.

On Your 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

PROBLEM SOLVING REAL WORLD

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.
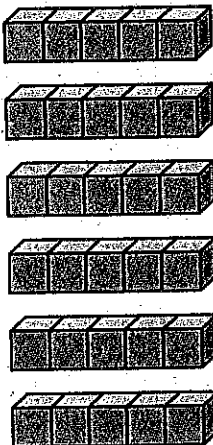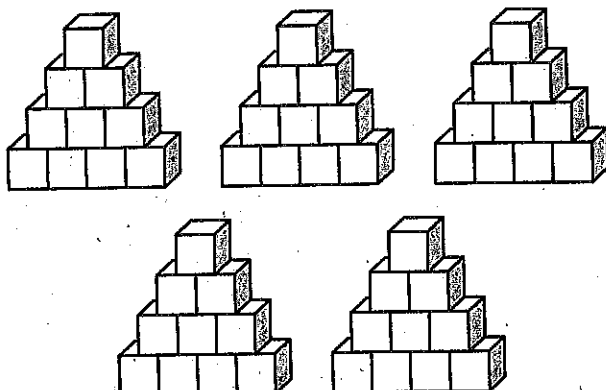
✓ Checkpoint

Concepts and Skills

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.

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

4. Place 14 counters in 2 equal groups.

_____ counters in each group

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

5. Place 12 counters in groups of 2.

_____ groups

Solve the problem.

6. Mrs. Owen puts 3 flowers in each vase.
   How many flowers are in 4 vases?

   ○ 7

   ○ 9

   ○ 12

   ○ 16

Hour Before and Hour After

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

Model and Draw

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

The hour hand points to 7.
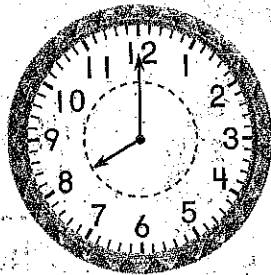
The hour hand points to 8.
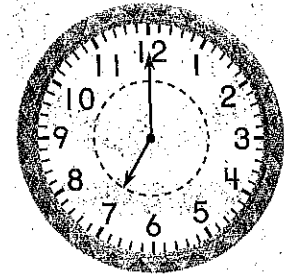
1 hour after

9:00

The hour hand points to 9.

Share and Show

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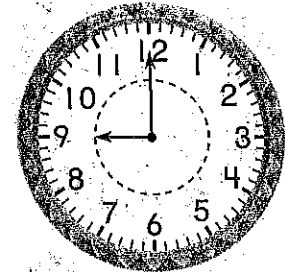
Write the time shown on the clock. Then write the time 1 hour before and 1 hour after.

1.
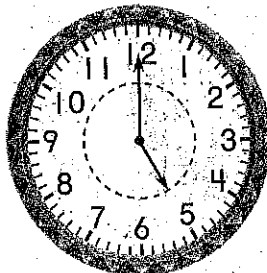
_____ 1 hour before

_____ 1 hour after
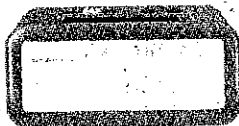
2.
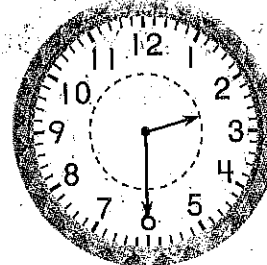
_____ 1 hour before

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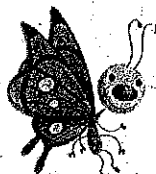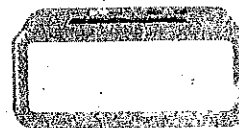
Math Talk   How are the hands on a clock that shows 8 o'clock the same as the hands on a clock 1 hour after? How are they different?

Getting Ready for Grade 3

On Your Own

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

3.

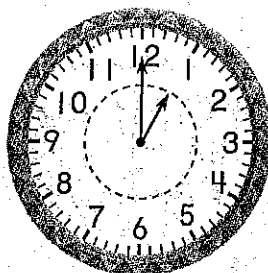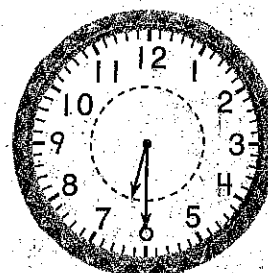_____ I hour before

_____ I hour after

4.

_____ I hour before

_____ I hour after

5.

_____ I hour before

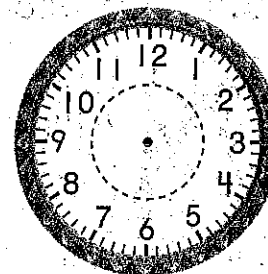_____ I hour after

6.
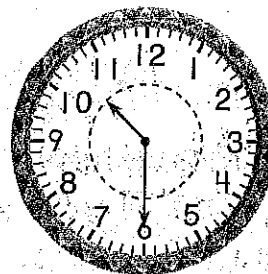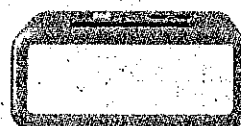
_____ I hour before

_____ I hour after

PROBLEM SOLVING REAL WORLD

7. Tim feeds the cat I hour after 7:00. Draw the hour hand and the minute hand to show I 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 I hour after 3:30. What time was it I hour before 3:30? Have your child tell you how he or she knows.
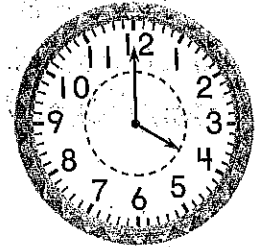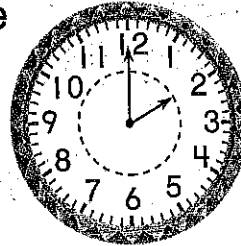
Elapsed Time in Hours

Essential Question How do you find the number of hours between two times?
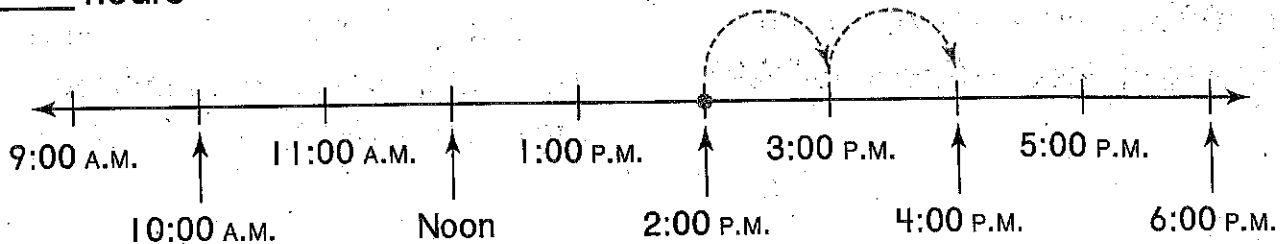
Model and Draw

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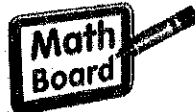
____ hours

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

9:00 A.M.   11:00 A.M.   1:00 P.M.   3:00 P.M.   5:00 P.M.

10:00 A.M.   Noon   2:00 P.M.   4:00 P.M.   6:00 P.M.

Share and Show

Math Board

Use the time line 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

3. Max goes out at 2:00 P.M. He comes back in at 5:00 P.M. For how long was Max out?

____ hours

4. Art class starts at 9:00 A.M. It ends at 11:00 A.M. How long is the art class?

____ hours

Math Talk Describe how you used the time line for Exercise 2.

On Your Own

Use the time line below. Solve.

```
◄─┬────┼────┼────┼────┼────┼────┼────┼────┼────┼────►
  9:00 A.M.         Noon            3:00 P.M.        6:00 P.M.
```

5. 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

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

_____ hours

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

_____ hours

8. 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

PROBLEM SOLVING REAL WORLD

Solve. Draw or write to explain.

9. Mr. Norton writes the time for classes on the board.

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

How long will reading class last?

_____ hours

Elapsed Time in Minutes

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

Model and Draw

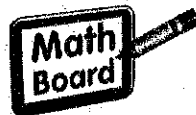You can use subtraction if the times are within the same hour.

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?

$$\begin{array}{r} 35 \\ -15 \\ \hline 20 \end{array}$$
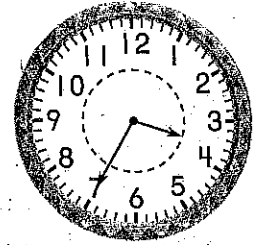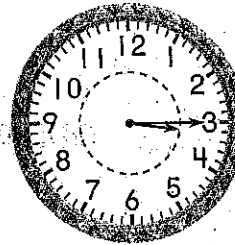
Starts at 3:15 P.M.   Ends at 3:35 P.M.

So it takes Ken __20__ minutes.

Share and Show

Math Board

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

3. Carla takes her dog to the park at 2:05 P.M. She gets back at 2:40 P.M. How long does Carla walk her dog?

_____

_____ minutes

4. Ethan starts his spelling homework at 6:25 P.M. He finishes at 6:45 P.M. How long does Ethan work on his spelling?

_____

_____ minutes

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

On Your Own

Subtract to solve. Show your work.

5. 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

6. 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

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

_____

_____ minutes

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

_____

_____ minutes

PROBLEM SOLVING REAL WORLD

Show how to use subtraction to solve.

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

Bus Arrival Times
8:30 A.M.
9:30 A.M.
10:30 A.M.

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

_____

_____ minutes

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.
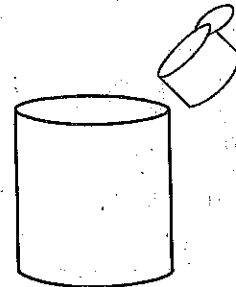
Capacity • Nonstandard Units

Essential Question How can you measure how much a container holds?
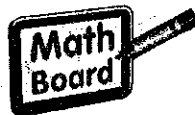
Model and Draw

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.

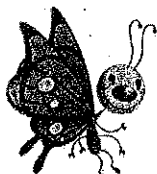· Repeat until the can is full. Keep track
of the number of scoops.

Share and Show

Math Board

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
3. paper cup	about _____ scoops	about _____ scoops

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

On Your Own

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

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

PROBLEM SOLVING REAL WORLD

Solve.

7. 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?
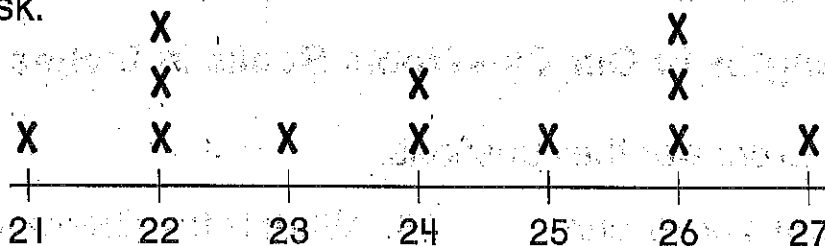
_____ scoops in all

Describe Measurement Data

Essential Question What measurement data can a line plot show?

Model and Draw

A line plot shows data on a number line.

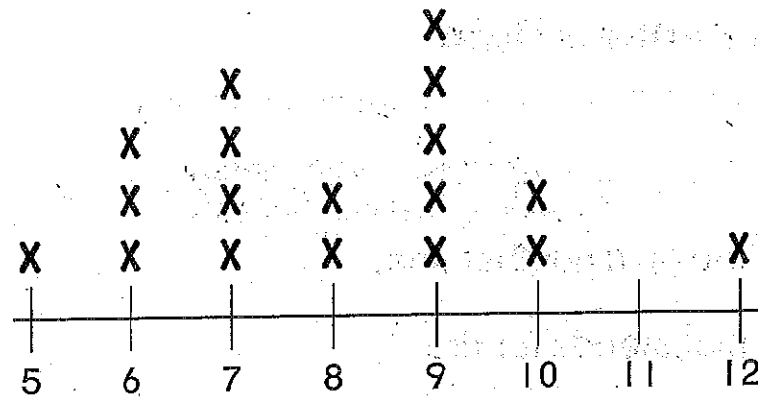Each X on this line plot stands for the length of 1 desk.

```
                    X                           X
                    X               X           X
        X           X       X       X       X   X       X
        +-----------+-------+-------+-------+---+-------+
        21          22      23      24      25  26      27
```

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.

Share and Show

Math Board

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

1. _____

   _____

2. _____

   _____

3. _____

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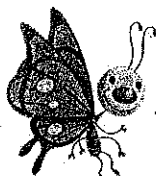
Math Talk Suppose you measured another desk. If the desk was 23 inches long, how could you show this on the line plot above?

On Your Own

```
                              X
                  X           X
              X   X           X
              X   X   X   X   X
          X   X   X   X   X       X
      +   +   +   +   +   +   +   +
      5   6   7   8   9   10  11  12
```

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 _____

PROBLEM SOLVING REAL WORLD

7. Look at the table to the right. It shows Tom's books and their lengths. Add the data for the books to the line plot at the top of the page.

Book	Length
Reading	11 inches
Math	12 inches
Spelling	9 inches

TAKE HOME ACTIVITY • Ask your child to explain how to read the line plot on this page.

P298 two hundred ninety-eight

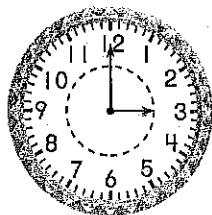## ✓ Checkpoint

Concepts and Skills

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

1.

I hour before _____
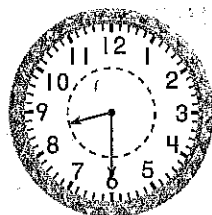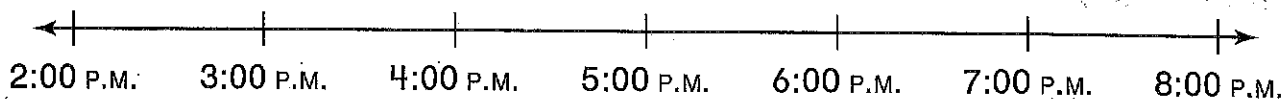
I hour after _____

2.

I hour before _____

I hour after _____

$\longleftarrow$───┼───┼───┼───┼───┼───┼───┼$\longrightarrow$
2:00 P.M.   3:00 P.M.   4:00 P.M.   5:00 P.M.   6:00 P.M.   7:00 P.M.   8:00 P.M.

Use the time line above. Solve.

3. A movie begins at 2:00 P.M. It is over at 5:00 P.M. How long is the movie?

_____ hours

4. Madison arrives at a friend's house at 3:00 P.M. She leaves at 7:00 P.M. How long does she stay?

_____ hours

Subtract to solve. Show your work.

5. Will arrives at the library at 1:15 P.M.
He leaves at 1:50 P.M. How long is
Will at the library?

_____ minutes

6. Andrew begins reading at 3:20 P.M.
He stops reading at 3:45 P.M.
How long did Andrew read?

_____ minutes

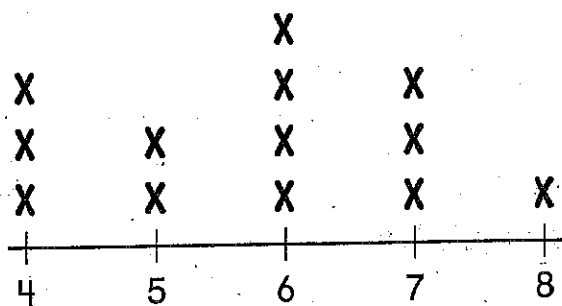How many scoops does the container hold? Estimate. Then measure.

7.

Estimate: about _____ scoops

Measure: about _____ scoops

plastic cup

8. What is the difference in height between the
shortest and tallest plants?

```
            X
X           X       X
X       X   X       X
X   X   X   X       X
+---+---+---+---+
4   5   6   7   8
```

Heights of Plants in Inches

○ 3 inches

○ 4 inches

○ 5 inches

○ 6 inches

Fraction Models: Thirds and Sixths

Essential Question How can you identify thirds and sixths?

Model and Draw

__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

Share and Show

Math Board
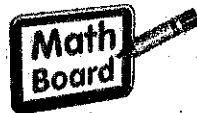
Color the strips. Show two different ways to show 1 third.

1.

2.
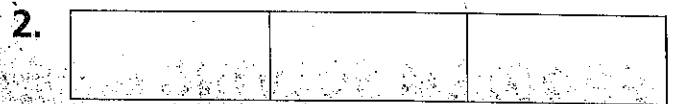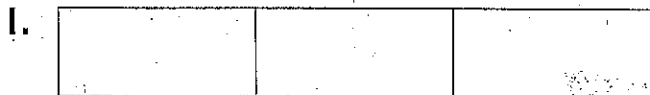
Color the strips. Show two different ways to show 1 sixth.

3.

4.
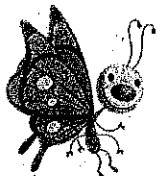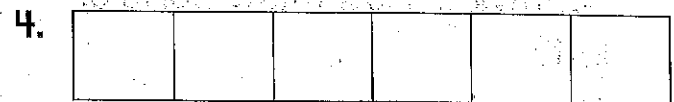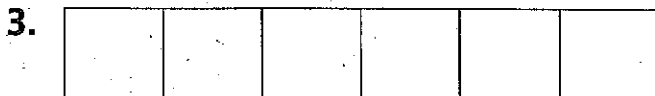
Math Talk How are 3 thirds and 6 sixths alike?

On Your 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.

PROBLEM SOLVING REAL WORLD

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 Question How can you identify **fourths** and **eighths**?

Model and Draw

__4__ equal parts or __4__ fourths

__8__ equal parts or __8__ eighths
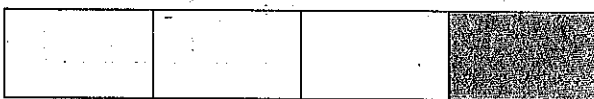
__1__ part of 4 equal parts or

__1__ fourth

__1__ part of 8 equal parts or

__1__ eighth

Share and Show

Math Board

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

1.

2.
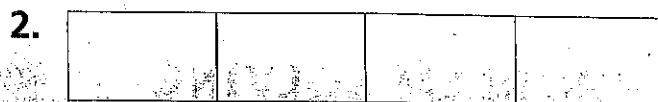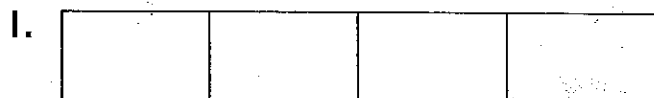
Color the strips. Show two different ways to show 1 eighth.

3.

4.
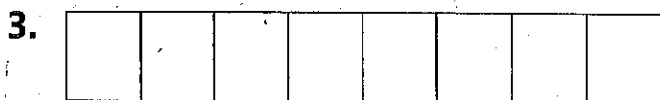
Math Talk How are 4 fourths and 8 eighths alike?

On Your 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.
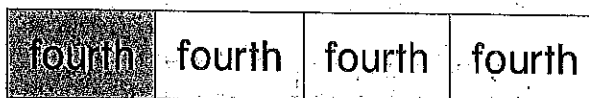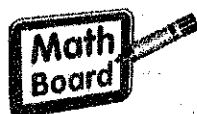
PROBLEM SOLVING REAL WORLD

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?
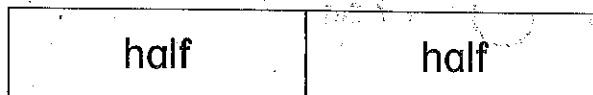
_____ parts left

TAKE HOME ACTIVITY • Have your child draw a picture to show a slice of cheese divided into fourths.
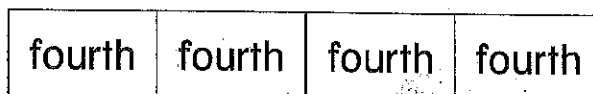
Compare Fraction Models

Essential Question How can you use fraction models to make comparisons?

Model and Draw

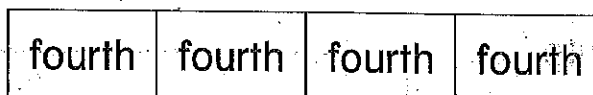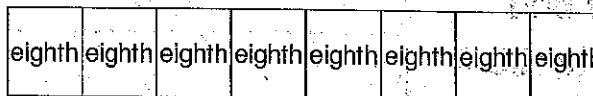| fourth | fourth | fourth | fourth |

| half | half |

I fourth $\bigcirc<$ I half

Share and Show

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

1.

I half | half | half |

2 fourths | fourth | fourth | fourth | fourth |

I half $\bigcirc$ 2 fourths

2.

I fourth | fourth | fourth | fourth | fourth |

I eighth | eighth | eighth | eighth | eighth | eighth | eighth | eighth | eighth |

I fourth $\bigcirc$ I eighth

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

On Your Own

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

3.

I third

third	third	third

I sixth

sixth	sixth	sixth	sixth	sixth	sixth

I third ◯ I sixth

4.

3 sixths

sixth	sixth	sixth	sixth	sixth	sixth

I half

half	half

3 sixths ◯ I half

PROBLEM SOLVING REAL WORLD

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.

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