

triumphlearning™

Common Core Coach

Home-School Connection

Mathematics 1

$$\begin{array}{r} 43 \\ +25 \\ \hline 68 \end{array}$$



First Edition | triumphlearning™

Welcome to the Home-School Connection!

We want you to see examples of the mathematics that your child is studying in school this year.

The program is based on a new course of study called Common Core State Standards. It is new not only in your district but in almost every state in the country. Many lessons may look just like earlier ones, but there are changes taking place in the way math is taught and learned. Two of the big changes include greater emphasis on understanding basic concepts and on solving problems.

In Kindergarten and in Grades 1 and 2: Math Begins Early. From the beginning, it is crucial for children to be grounded in important fundamental concepts. This booklet gives you an idea of the changes and a chance to see what is in your child's math program. Take a look at the questions your child is asked. Each page shows a question or two from each lesson of the program.

Here is what you can do:

- Find out what lesson your child is working on in school.
- Look at the question from that lesson.
- Go over this question—your child will show you how to answer the question, or
- Help with finding the answer.

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Grade 1: Domains and Their Clusters

The Common Core for Mathematics includes 4 Domains for Grades 1 and 2. Here is the title of each Domain and a brief description of the content presented in the Domain.

Domain 1: Operations and Algebraic Thinking

- A.** Solve problems involving addition and subtraction within 20.

Carla has 5 marbles. Juan has 3 marbles. They have 8 marbles in all.

- B.** Understand and apply properties of adding and subtracting and the relationship between addition and subtraction.

Since $4 + 5 = 9$, then $5 + 4 = 9$, $9 - 5 = 4$, and $9 - 4 = 5$.

- C.** Add and subtract within 20.

Addition and subtraction facts to 20, such as $7 + 8 = 15$ and $18 - 9 = 9$.

- D.** Work with addition and subtraction equations.

$$5 + 7 = 12 \qquad 17 - 9 = 8 \qquad 14 - 6 = 8$$

The missing number in $4 + \underline{\quad} = 13$ is 9.

Domain 2: Number and Operations in Base Ten

- A.** Extend the counting sequence.

Count to 120.

- B.** Understand place value.

Understand tens and ones to 20.

17 is made up of 1 ten and 7 ones.

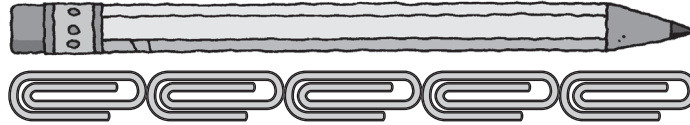
- C.** Use place-value understanding and properties of operations to add and subtract.

Add: $45 + 8 = 53$ Subtract with tens: $80 - 30 = 50$

Domain 3: Measurement and Data

A. Measure lengths indirectly and by iterating length units.

The pen is 5 paper clips long.



B. Tell and write time.

The time is 3:30.



C. Represent and interpret data.

The table shows the number of marbles in a bag.

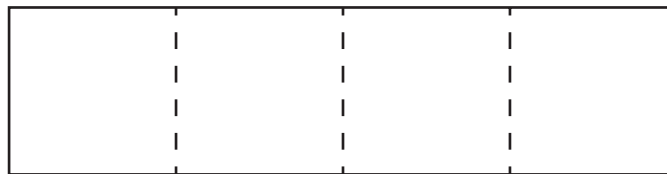
Marbles in a Bag

red	
green	
blue	

Domain 4: Geometry

Identify shapes and their attributes.

This rectangle is divided into four equal shares.



Lesson 1 Problem Solving: Addition

We learned how to **add** to solve word problems.

Let's work together to review the skill.

There are 6 red balloons and 7 yellow balloons at the party. How many balloons are there in all?

Draw balloons.



$$6 + 7 = \square$$

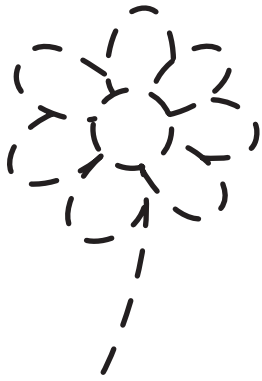
There are _____ balloons in all.

Lesson 2 Problem Solving: Subtraction

We learned how to **subtract** to solve word problems.
Let's work together to review the skill.

There were 14 flowers in a garden. Maria picked 6 flowers. How many flowers are left?

Draw flowers.



$$14 - 6 = \square$$

There are _____ flowers left.

Lesson 3

Problem Solving: Adding Three Numbers

We learned how to add three numbers to solve some word problems.

Let's work together to review the skill.

There are 3 blue balloons, some red balloons, and 4 yellow balloons at a party. There are 12 balloons in all. How many red balloons are there?

Draw balloons.



$$3 + \square + 4 = 12$$

There are _____ red balloons.

Lesson 4 Properties of Addition

We learned to add numbers in any order.

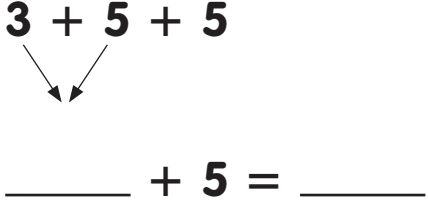
Let's work together to review the skill.

Show two ways to find the **sum**.

1 $3 + 5 + 5 = \blacksquare$

ONE WAY

$3 + 5 + 5$



_____ + 5 = _____

ANOTHER WAY

$3 + 5 + 5 = \square$



2 $5 + 2 + 4 = \blacksquare$

ONE WAY

ANOTHER WAY

$5 + 2 + 4 = \square$

Lesson 5

Relating Addition and Subtraction

We learned that **related facts** use the same numbers. These are related addition and subtraction facts that use the numbers 3, 4, and 7.

$3 + 4 = 7$

$7 - 4 = 3$

$4 + 3 = 7$

$7 - 3 = 4$

Let's work together to review the skill.

- 1 Write 2 addition facts and 2 subtraction facts that use the numbers 5, 8, and 13.

_____	+	_____	=	_____	_____	-	_____	=	_____
_____	+	_____	=	_____	_____	-	_____	=	_____

.....

- 2 Write 2 addition facts and 2 subtraction facts that are all related to one another.


_____	+	_____	=	_____	_____	-	_____	=	_____
_____	+	_____	=	_____	_____	-	_____	=	_____

What numbers did you use? _____

Lesson 6 Counting On


We learned how to **count on** to add.

Let's work together to review this skill.


1 $7 + 2 =$ 

Draw a picture.

Show how you count on to find the answer.

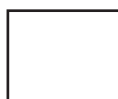
$7 + 2 =$ 

.....

2 $8 + 3 =$ 

Draw a picture.

Show how you count on to find the answer.

$8 + 3 =$ 

Lesson 7 Facts to 10

We learned how to use related facts to add or subtract.
Let's work together to review this skill.

1 What related addition fact would you use to find $7 - 5$?

2 What related addition fact would you use to find $6 - 2$?

3 What related addition fact would you use to find $12 - 4$?

4 What related addition fact would you use to find $11 - 9$?

Lesson 8 Facts to 20

We learned how to make a ten and count on to find a sum.

Let's work together to review this skill.

1 Make a model to show $9 + 4 = \blacksquare$.

Draw counters.

$$9 + 4 = \square$$

.....

2 Make a model to show $8 + 7 = \blacksquare$.

Draw counters.

$$8 + 7 = \square$$

Lesson 9

Addition and Subtraction Equations

We learned about addition and subtraction **equations**.

Let's work together to review this skill.

1 What number will make the equation true?

$$6 + 4 = 5 + \square$$

.....

2 What number will make the equation true?

$$8 - 6 = \square$$

.....

3 What number will make the equation true?

$$3 + 8 = 7 + \square$$

.....

4 What number will make the equation true?

$$5 + 6 = 6 + \square$$

Lesson 10 Missing Numbers in Equations

We learned how to find missing numbers in equations.

Let's work together to review this skill.

1 Write a related subtraction fact.

Then write the missing number.

$$6 + \blacksquare = 9$$

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

$$6 + \square = 9$$

.....

2 Write a related subtraction fact.

Then write the missing number.

$$8 + \blacksquare = 17$$

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

$$8 + \square = 17$$

Lesson II Counting to 120

We learned how to count to 120.

Let's work together to review this skill.

Write the missing numbers to 120.

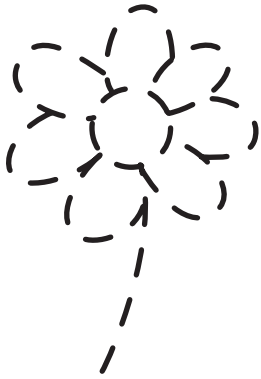
1	2		4		6		8		10
11		13	14		16			19	
	22	23		25			28	29	
	32		34		36			39	
41	42		44	45			48		50
51			54		56		58	59	
61	62	63		65		67	68		70
	72		74		76			79	
81			84	85		87	88		90
91	92		94			97		99	
101		103		105			108		110
	112		114			117		119	

Lesson 12 Reading and Writing Numbers

We learned how to read and write numbers.

Let's work together to review this skill.

Draw twenty-one flowers.



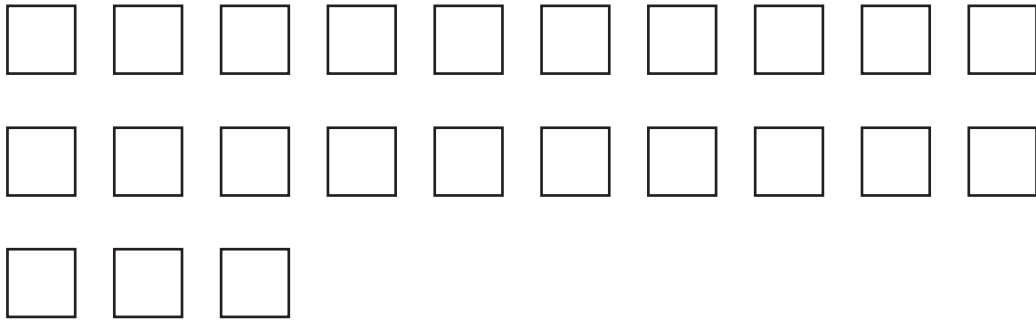
Write the number of flowers. _____

Lesson 13 Tens and Ones

We learned how to count **tens** and **ones**.

Let's work together to review this skill.

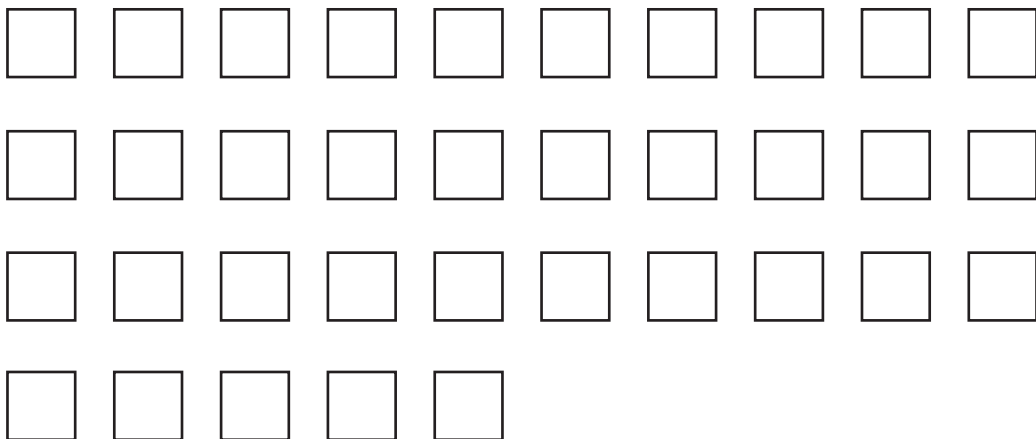
1 Make groups of 10.



How many tens and ones? _____ tens _____ ones

How many in all? _____

.....
2 Make groups of 10.



How many tens and ones? _____ tens _____ ones

How many in all? _____

Lesson 14 Comparing Numbers

We learned how to compare numbers.

Let's work together to review this skill.

- 1 Write five numbers that are **greater than** 10 and **less than** 30.

Compare two of your numbers. Write $>$, $=$, or $<$.

_____ ○ _____

.....

- 2 Write five numbers that are greater than 60 and less than 80.

Compare two of your numbers. Write $>$, $=$, or $<$.

_____ ○ _____

Lesson 15 Adding Two-Digit Numbers

We learned how to add two-digit numbers.

Let's work together to review this skill.

1 $32 + 7 = \blacksquare$

Draw models to find the sum.

$$32 + 7 = \underline{\hspace{2cm}}$$

.....

2 $14 + 9 = \blacksquare$

Draw models to find the sum.

$$14 + 9 = \underline{\hspace{2cm}}$$

Lesson 16 10 More or 10 Less

We learned how to find 10 more than and 10 less than a number.

Let's work together to review this skill.

1 The number 36 is 10 more than what number?

.....

2 The number 36 is 10 less than what number?

.....

3 The number 78 is 10 more than what number?


.....

4 The number 78 is 10 less than what number?

Lesson 17 Subtracting Tens


We learned how to subtract tens.

Let's work together to review this skill.

1 $50 - 30 =$ 

Draw models to find the answer.

$50 - 30 =$

.....
2 $70 - 40 =$ 

Draw models to find the answer.

$70 - 40 =$

Lesson 18

Comparing and Ordering Lengths

We learned how to compare and order **lengths**.

Let's work together to review this skill.

Look at the straw.

Draw a shorter straw above the straw.

Draw a longer straw below the straw.



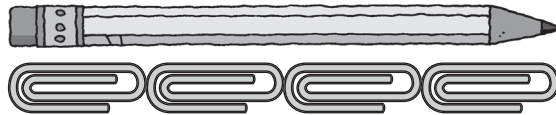
Are your straws in order from shortest to longest? _____

Lesson 19 Measuring Lengths

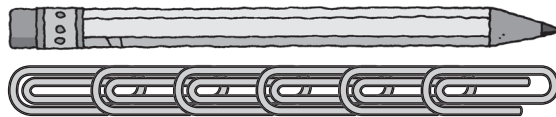
We learned how to measure lengths.

Let's work together to review this skill.

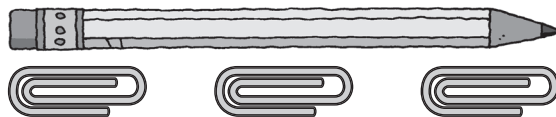
Olivia used paper clips to measure the pencil.



Diego used paper clips to measure the pencil.



Matilda used paper clips to measure the pencil.



Who measured correctly? _____

How long is the pencil? _____ paper clips long

Lesson 20 Telling Time

We learned how to tell **time**.

Let's work together to review this skill.

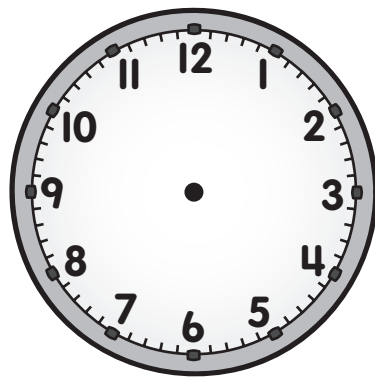
Look at the **clock**.



Write the time. _____:_____

Show the same time on this clock.

Draw the hands.

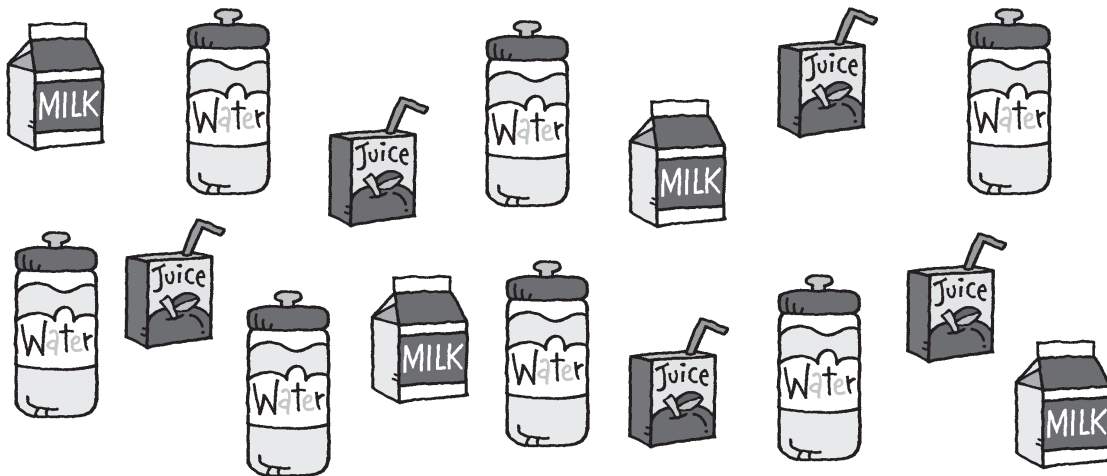


Lesson 21 Tables

We learned how to make a **table**.

Let's work together to review this skill.

Evan asked some children to show their favorite drinks.



- 1 Show the **data** in the table.
Count how many of each drink.

_____ milk _____ juice _____ water

Write a title. Draw a **tally mark** for each drink.

Title _____

milk	juice	water

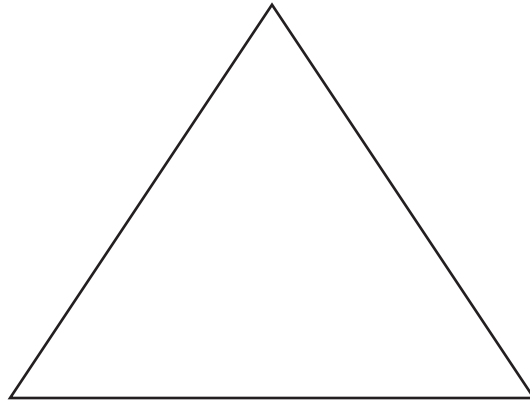
- 2 How many children did Evan ask in all? _____

Lesson 22 Shapes

We learned about shapes.

Let's work together to review this skill.

This shape is a **triangle**.



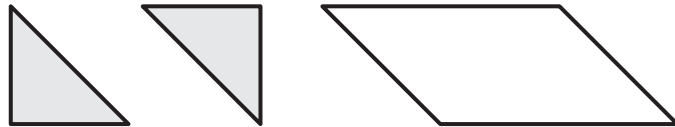
Use real objects such as straws or crayons.

Put your objects together to make a larger triangle.

Lesson 23 Combining Shapes

We learned about putting shapes together.
Let's work together to review this skill.

Joey put these **flat shapes** together.



Joey's new shape is a **rectangle**.

Draw the rectangle.

How many straight sides and corners does the new shape have?

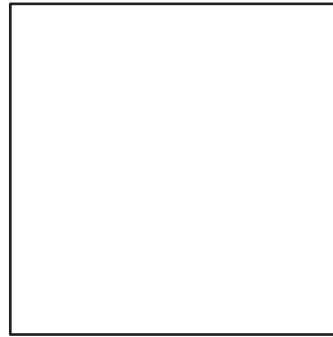
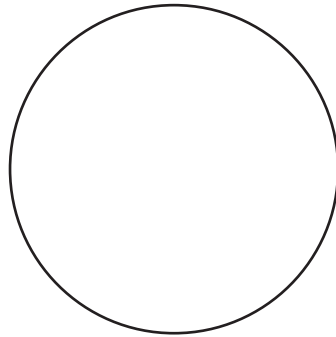
The new shape has _____ straight sides and _____ corners.

Lesson 24 Making Equal Shares

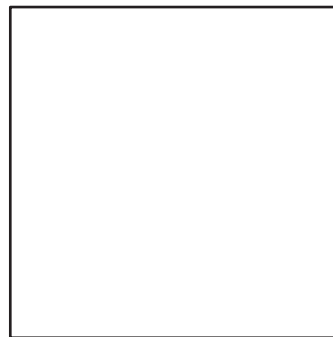
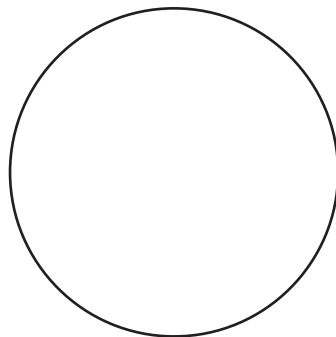
We learned how to make **equal shares**.

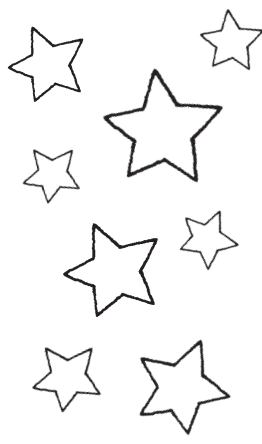
Let's work together to review this skill.

1 Draw lines to cut each shape into **fourths**.

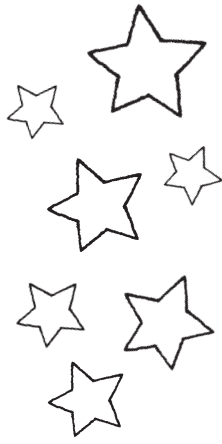


2 Draw lines to cut each shape into **halves**.





Math!



Congratulations!

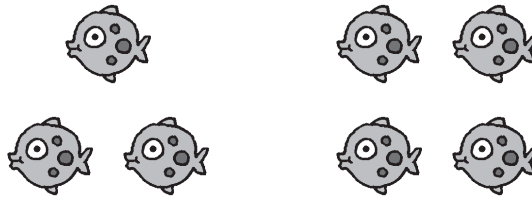


**has completed
Grade 1 Math!**

Glossary

A

add to find how many in all (Lesson 1)



3 plus 4 equals 7

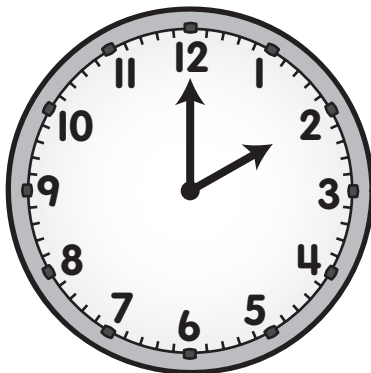
3 + 4 = 7

addends the numbers you add (Lessons 5, 7)

$$\begin{array}{r} 3 \leftarrow \text{addend} \\ + 2 \leftarrow \text{addend} \\ \hline 5 \end{array}$$

C

clock (Lesson 20)



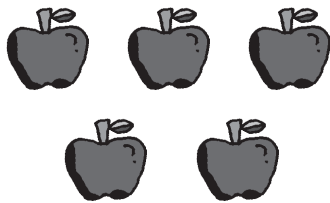
closed shape (Lesson 22)



closed

count on (Lesson 6)

$$5 + 3 = 8$$



5



6

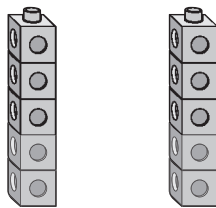
7

8

D

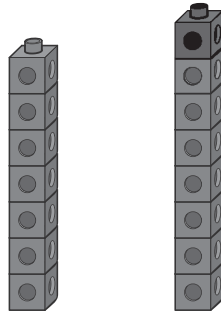
data information (Lesson 21)

doubles (Lesson 7)



$$5 + 5 = 10$$

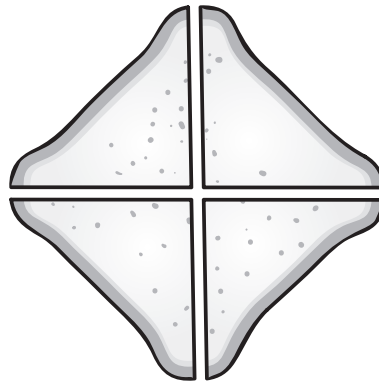
doubles plus 1 (Lesson 7)



$$7 + 8 = 15$$

E

equal shares (Lesson 24)



The sandwich has 4 equal shares.

equal sign (=) (Lesson 9)

$$7 + 4 = 11$$

↑
equal sign

equal to (=) (Lesson 14)

$$22 = 22$$

↑
is equal to

equation a number sentence with an equal sign (Lesson 9)

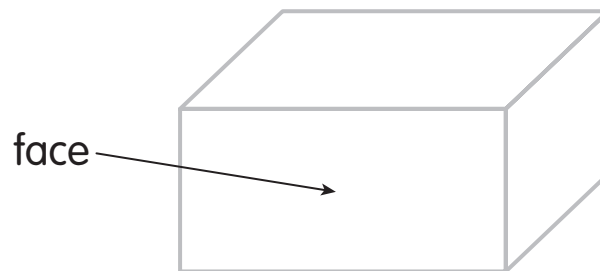
$$4 + 6 = 10$$

$$9 - 2 = 7$$

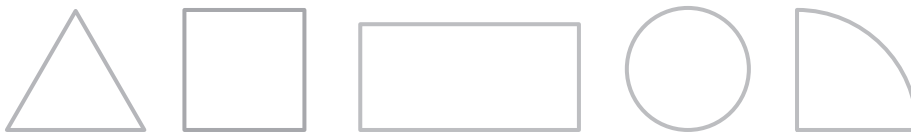
$$5 + 3 = 3 + 5$$

F

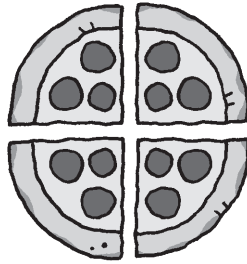
face (Lesson 23)



flat shape (Lesson 23)



fourths (quarters) (Lesson 24)



This pizza is in fourths.



greater than (>) (Lesson 14)

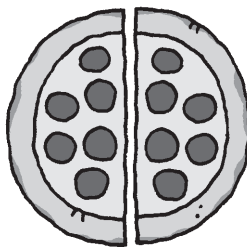
$$22 > 16$$



is greater than



half (halves) (Lesson 24)



This pizza is in halves.

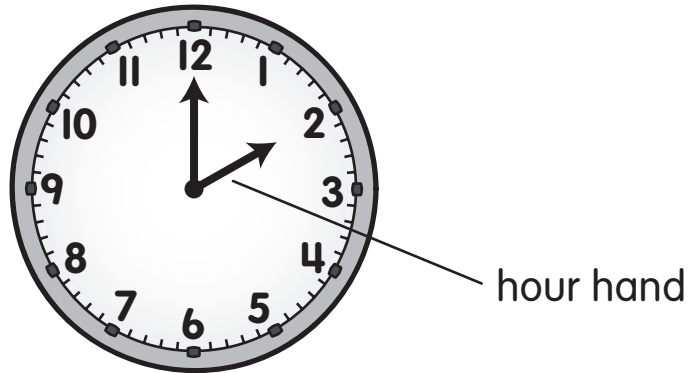
half hour (Lesson 20)

There are 30 minutes in a half hour.

hour (Lesson 20)

There are 60 minutes in 1 hour.

hour hand (Lesson 20)

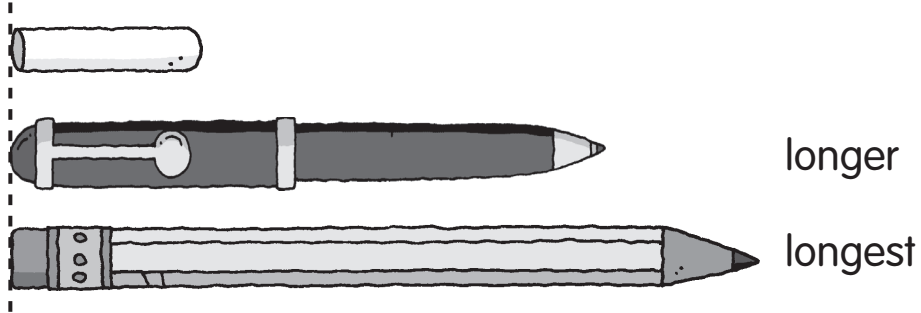


hundred chart (Lesson 11)

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	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
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

L

length (Lesson 18)



less than (<) (Lesson 14)

$$16 < 22$$

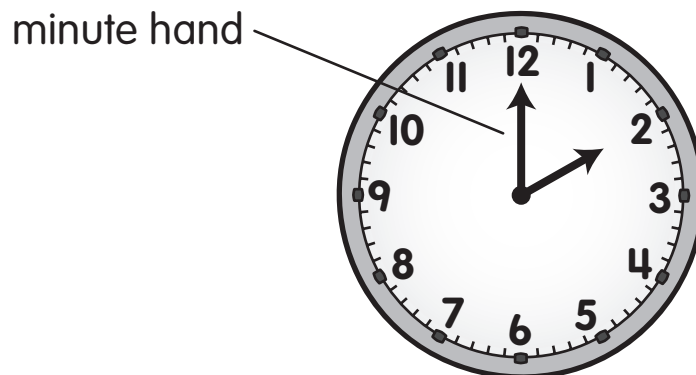
↑
is less than

M

minute (Lesson 20)

There are 60 minutes in 1 hour.

minute hand (Lesson 20)



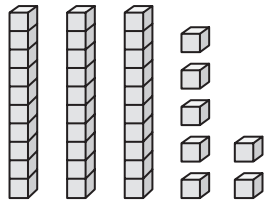


number name a number in words (Lesson 12)

14 = fourteen



ones (Lesson 13)



37 has 7 ones.

open shape (Lesson 22)



open

R

related facts facts that have the same numbers

(Lesson 4)

$$6 + 5 = 11$$

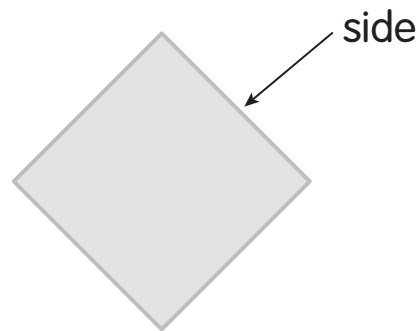
$$5 + 6 = 11$$

$$11 - 5 = 6$$

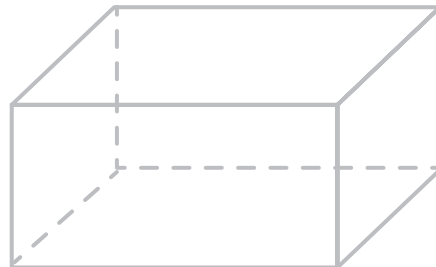
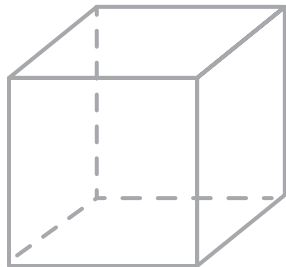
$$11 - 6 = 5$$

S

side (Lesson 22)



solid shape (Lesson 23)



square (Lesson 22)



subtract to find how many are left (Lesson 2)



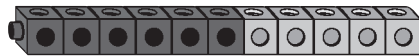
9 minus 3 equals 6

9 - 3 = 6

subtraction sentence (Lesson 6)

$$9 - 6 = 3$$

sum the answer in addition (Lesson 4)










$$6 + 5 = 11$$

↑
sum

T

table (Lesson 21)

Weather

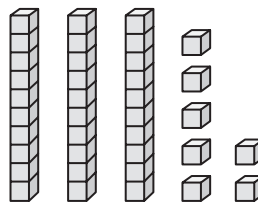
sunny 	 
rain 	
snow 	

tally mark (Lesson 21)

| stands for 1.  stands for 5.

ten frame (Lesson 8)

tens (Lesson 13)



37 has 3 tens.

tens and ones chart (Lesson 13)

Tens	Ones

time (Lesson 20)



The time is 4:30.

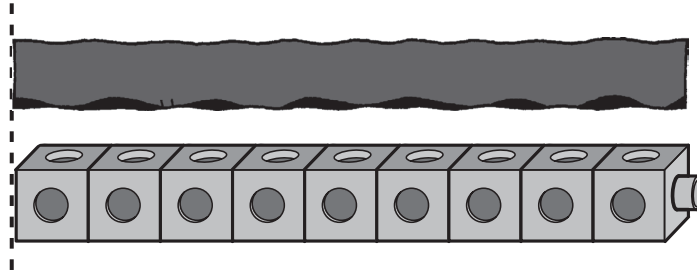
triangle (Lesson 22)



U

unit (Lesson 19)

You can measure lengths with units.



9 units long

Answers

Lesson 1: $6 + 7 = 13$; There are **13** balloons in all.

Lesson 2: $14 - 6 = 8$; There are **8** flowers left.

Lesson 3: $3 + 5 + 4 = 12$; There are **5** red balloons.

Lesson 4: Another way:
 $3 + 5 + 5 = 3 + 10 = 13$
 $3 + 5 + 5 = 13$

Lesson 5: 1. $5 + 8 = 13$ $13 - 8 = 5$
 $8 + 5 = 13$ $13 - 5 = 8$

2. Numbers will vary.
 Possible answer:
 $5 + 6 = 11$ $11 - 6 = 5$
 $6 + 5 = 11$ $11 - 5 = 6$
 Numbers used: 5, 6, 11

Lesson 6: 1. $7 + 2 = 9$
 2. $8 + 3 = 11$

Lesson 7: 1. $5 + 2 = 7$
 2. $2 + 4 = 6$
 3. $4 + 8 = 12$
 4. $9 + 2 = 11$

Lesson 8: 1. $9 + 4 = 13$
 2. $8 + 7 = 15$

Lesson 9: 1. $6 + 4 = 5 + 5$
 2. $8 - 6 = 2$
 3. $3 + 8 = 7 + 4$
 4. $5 + 6 = 6 + 5$

Lesson 10: 1. $9 - 6 = 3$; $6 + 3 = 9$
 2. $17 - 8 = 9$; $8 + 9 = 17$

Lesson 11:

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	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
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120

Lesson 12: 21

Lesson 13: 1. **2** tens **3** ones; 23
 2. **3** tens **5** ones; 35

Lesson 14: 1. Possible answer:
 13, 16, 22, 25, 29; $22 > 13$
 2. Possible answer:
 61, 66, 70, 72, 77; $61 < 66$

Lesson 15: 1. $32 + 7 = 39$
 2. $14 + 9 = 23$

Lesson 16: 1. 26
 2. 46
 3. 68
 4. 88

Lesson 17: 1. $50 - 30 = 20$
 2. $70 - 40 = 30$

Lesson 18: Child should draw a shorter straw above the straw and a longer straw below the straw. Are the straws in order from shortest to longest? **Yes**

Lesson 19: Who measured correctly? **Olivia**

How long is the pencil? **4** paper clips long

Lesson 20: 8:30



Lesson 21: 1. **4** milk; **5** juice; **7** water;

Favorite Drinks

milk	
juice	
water	

2. 16

Lesson 22: Child might use straws, pencils, crayons, or other objects to make a larger triangle.

Lesson 23:



The new shape has **4** straight sides and **4** corners.

- Lesson 24:**
1. Child should draw lines to cut each shape into 4 equal parts.
 2. Child should draw lines to cut each shape into 2 equal parts.

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