

A STORY OF UNITS



Mathematics Curriculum



Grade 1 • MODULE 3

Ordering and Comparing Length Measurements as Numbers

PROBLEM SETS

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Video tutorials: http://embarc.online

Version 3



Mathematics Curriculum



GRADE 1 • MODULE 3

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GRADE 1 • MODULE 3

Ordering and Comparing Length Measurements as Numbers

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NOTE: Student sheets should be printed at 100% scale to preserve the intended size of figures for accurate measurements. Adjust copier or printer settings to *actual size* and set page scaling to *none*.

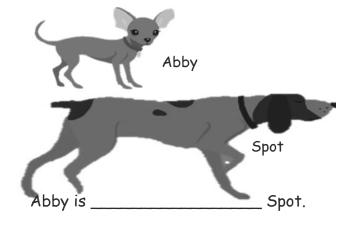


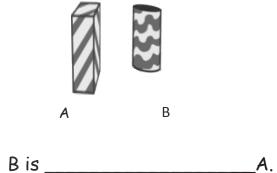
Name	Date

Write the words longer than or shorter than to make the sentences true.

1.

2.









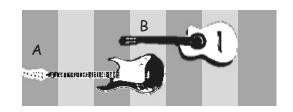
The American flag hat

the chef hat.

The darker bat's wing span

the lighter bat's wing span.

5.

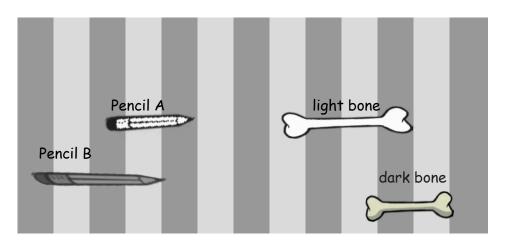


Guitar B is

Guitar A.

Lesson 1:

Compare length directly and consider the importance of aligning endpoints.



- 6. Pencil B is ______ Pencil A.
- 7. The dark bone is _____ the light bone.
- 8. Circle true or false.

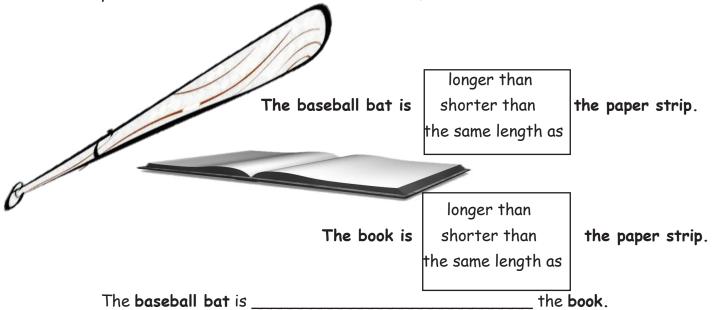
The light bone is shorter than Pencil A. True or False

9. Find 3 school supplies. Draw them here in order from shortest to longest. Label each school supply.

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MAIL

Name Date

1. Use the paper strip provided by your teacher to measure each picture. Circle the words you need to make the sentence true. Then, fill in the blank.



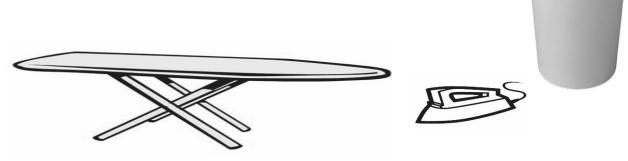
2. Complete the sentences with longer than, shorter than, or the same length as to make the sentences true.

a.



The **tube** is ______ the **cup**.

b.



The **iron** is the ironing board. Use the measurements from the first page. Circle the word that makes the sentences true.

- 3. The baseball bat is (longer/shorter) than the cup.
- 4. The cup is (longer/shorter) than the ironing board.
- 5. The ironing board is (longer/shorter) than the book.
- 6. Order these objects from shortest to longest:

cup, tube, and paper strip

Draw a picture to help you complete the measurement statements. Circle the words that make each statement true.

7. Sammy is taller than Dion.

Janell is taller than Sammy.

Dion is (taller than/shorter than) Janell.

8. Laura's necklace is longer than Mihal's necklace.

Laura's necklace is shorter than Sarai's necklace.

Sarai's necklace is (longer than/shorter than) Mihal's necklace.

Vame	Date	
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1. In a playroom, Lu Lu cut a piece of string that measured the distance from the doll house to the park. She took the same string and tried to measure the distance between the park and the store, but she ran out of string!

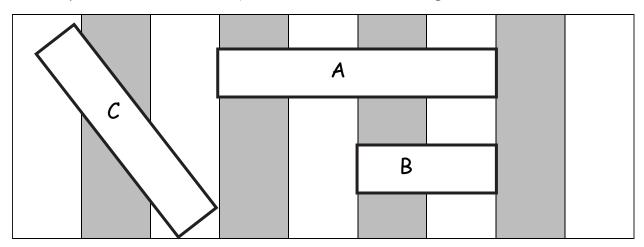
Which is the longer path? Circle your answer.

the doll house to the park

the park to the store

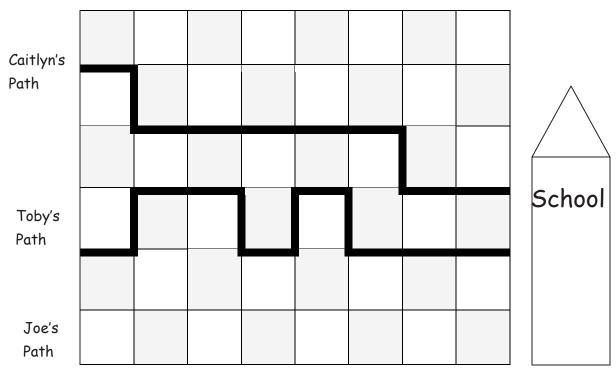


Use the picture to answer the questions about the rectangles.



- 2. Which is the shortest rectangle?
- 3. If Rectangle A is longer than Rectangle C, the longest rectangle is
- 4. Order the rectangles from shortest to longest:

Use the picture to answer the questions about the students' paths to school.



- 5. How long is Caitlyn's path to school? _____ blocks
- 6. How long is Toby's path to school? _____ blocks
- 7. Joe's path is shorter than Caitlyn's. Draw Joe's path.

Circle the correct word to make the statement true.

- 8. Toby's path is longer/shorter than Joe's path.
- 9. Who took the shortest path to school?
- 10. Order the paths from shortest to longest.

Name	 Date	

Classroom Objects	Length Using Centimeter Cubes
glue stick	centimeter cubes long
dry erase marker	centimeter cubes long
craft stick	centimeter cubes long
paper clip	centimeter cubes long
	centimeter cubes long
	centimeter cubes long
	centimeter cubes long

Name	Date
i vanie	Date

Measure the length of each picture with your cubes. Complete the statements below.

1. The pencil is _____ centimeter cubes long.



2. The pan is _____ centimeter cubes long.





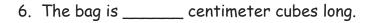
3. The shoe is _____ centimeter cubes long.







5. The paintbrush is _____ centimeter cubes long.







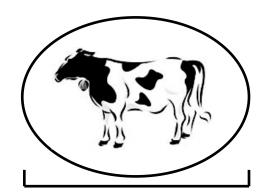
7. The ant is _____ centimeter cubes long.





8. The cupcake is _____ centimeter cubes long.

9.



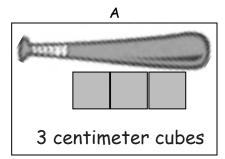
The cow sticker is _____ centimeter cubes long.

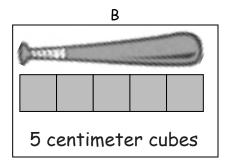
10.



The vase is _____ centimeter cubes long.

11. Circle the picture that shows the correct way to measure.





12. How would you fix the picture that shows an incorrect measurement?

Name	Date	
1 varie		

1. Circle the object(s) that are measured correctly.

α.





b.



3 centimeters long

5 centimeters long





4 centimeters long

2. Measure the paper clip in 1(b) with your cubes. Then, check the cubes with your centimeter ruler.

The paper clip is _____ centimeter cubes long.

The paper clip is _____ centimeters long.

Be ready to explain why these are the same or different during the Debrief!

3. Use centimeter cubes to measure the length of each picture from left to right. Complete the statement about the length of each picture in centimeters.

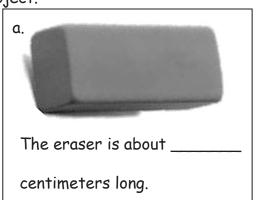


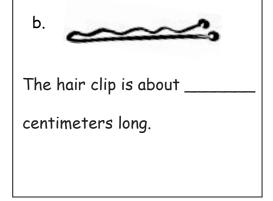


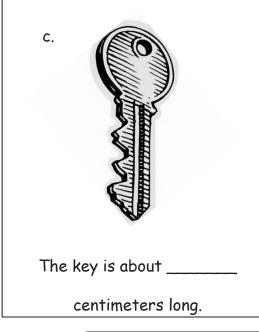


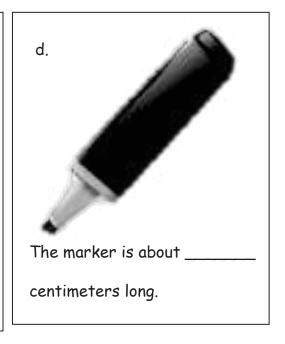
- a. The hamburger picture is _____ centimeters long.
- b. The hotdog picture is _____ centimeters long.
- c. The bread picture is _____ centimeters long.

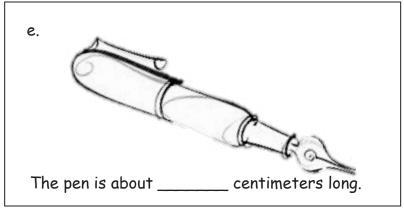
4. Use centimeter cubes to measure the objects below. Fill in the length of each object.











5.	The eraser is longer than the	 but it is shorter than
	the	

6. Circle the word that makes the sentence true.

If a paper clip is shorter than the key, then the marker is longer/shorter than the paper clip.

Name Date

1. Order the bugs from longest to shortest by writing the bug names on the lines. Use centimeter cubes to check your answer. Write the length of each bug in the space below the pictures.

The bugs from longest to shortest are:



Caterpillar



Bee

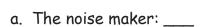


_ centimeters

_centimeters

centimeters

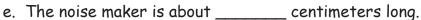
2. Order the objects below from shortest to longest using the numbers 1, 2, and 3. Use your centimeter cubes to check your answers, and then complete the sentences for problems d, e, f, and g.





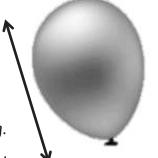














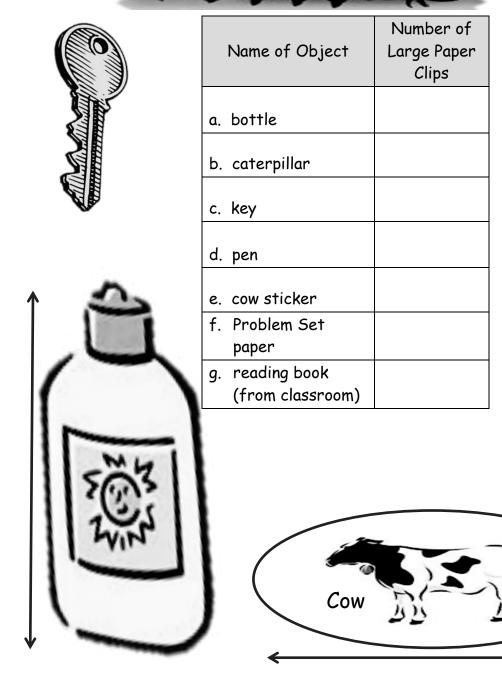
Use your centimeter cubes to model each length and answer the question. Write a statement for your answer.

3. Peter's toy T-rex is 11 centimeters tall, and his toy velociraptor is 6 centimeters tall. How much taller is the T-rex than the velociraptor?

4. Miguel's pencil rolled 17 centimeters and Sonya's pencil rolled 9 centimeters. How much less did Sonya's pencil roll than Miguel's?

5. Tania makes a cube tower that is 3 centimeters taller than Vince's tower. If Vince's tower is 9 centimeters tall, how tall is Tania's tower?

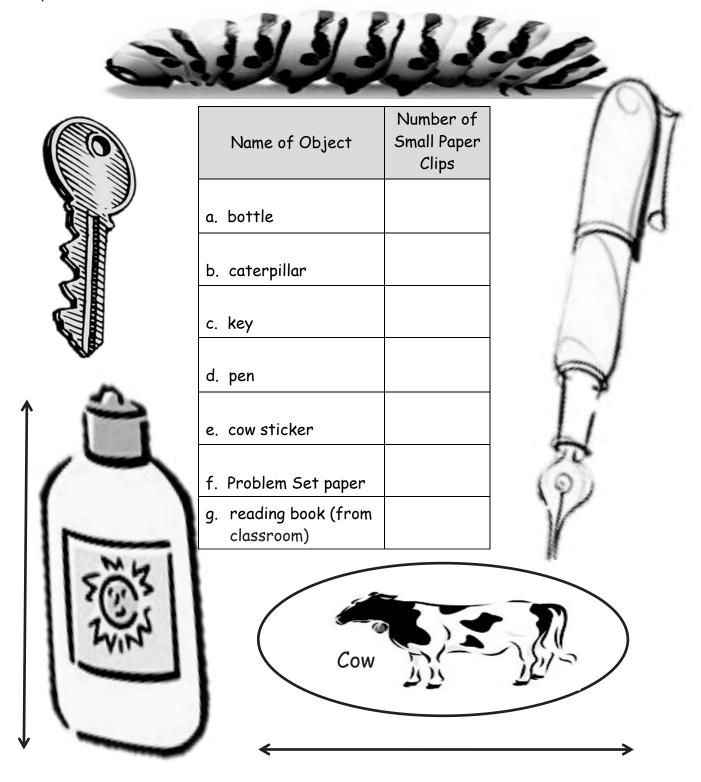
1. Measure the length of each object with LARGE paper clips. Fill in the chart with your measurements.





Lesson 7:

2. Measure the length of each object with SMALL paper clips. Fill in the chart with your measurements.



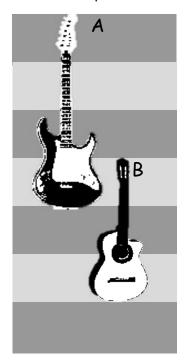
Name	Date
Circle the length unit you will use to measure	. Use the same length unit for all objects.
Small Paperclips	Large Paperclips
Toothpicks	Centimeter Cubes

1. Measure each object listed on the chart and record the measurement. Add the names of other objects in the classroom and record their measurements.

Classroom Object	Measurement
a. glue stick	
b. dry erase marker	
c. unsharpened pencil	
d. personal white board	
e.	
f.	
g.	

	_
Name	Date
1 101110	Daio

1. Look at the picture below. How much longer is Guitar A than Guitar B?



Guitar A is ____ unit(s) longer than Guitar B.

2. Measure each object with centimeter cubes.



The blue pen is _____



The yellow pen is _____

3. How much longer is the yellow pen than the blue pen?

The yellow pen is ____ centimeters longer than the blue pen.

4. How much shorter is the blue pen than the yellow pen?

The blue pen is ____ centimeters shorter than the yellow pen.

Use your centimeter cubes to model each problem. Then, solve by drawing a picture of your model and writing a number sentence and a statement.

5. Austin wants to make a train that is 13 centimeter cubes long. If his train is already 9 centimeter cubes long, how many more cubes does he need?

6. Kea's boat is 12 centimeters long, and Megan's boat is 8 centimeters long. How much shorter is Megan's boat than Kea's boat?

7. Kim cuts a piece of ribbon for her mom that is 14 centimeters long. Her mom says the ribbon is 8 centimeters too long. How long should the ribbon be?

8. The tail of Lee's dog is 15 centimeters long. If the tail of Kit's dog is 9 centimeters long, how much longer is the tail of Lee's dog than the tail of Kit's dog?

Nam	ne	Date
_	roup of people were asked to say their favorite color. ks and answer the questions.	Organize the data using tally
	green red blue	blue blue
	red blue green	olue red red
R	ed	
Gr	reen	
В	lue	
1. H	low many people chose red as their favorite color?	people like red.
2. F	low many people chose blue as their favorite color? _	people like blue.
	How many people chose green as their favorite color?	people like
4. V	Which color received the least amount of votes?	
	Vrite a number sentence that tells the total number of the hearth of the color.	of people who were asked

Name	Date
1 101110	5415

Welcome to Data Day! Follow the directions to collect and organize data. Then, ask and answer questions about the data.

- Choose a question. Circle your choice.
- Pick 3 answer choices.
- Ask your classmates the question and show them the 3 choices. Record the data on a class list.
- Organize the data in the chart below.

Which fruit do	Which snack do	What do you like	Which school	Which animal
you like best?	you like best?	to do on the	subject do you	would you most
		playground the	like the best?	like to be?
		most?		

Answer Choices	Number of Students

- Complete the question sentence frames to ask questions about your data.
- Trade papers with a partner, and have your partner answer your questions.
- 1. How many students liked _____ the best?

2. Which category received the fewest votes?

3. How many more students liked ______ than _____?

4. What is the total number of students who liked _____ or _____ the best?

5. How many students answered the question? How do you know?

Name	_		Date
	•	res with no gap I res carefully.	s or overlaps to organize the data from the picture. Line up
F	av	orite Ice C	ream Flavor
			Number of Students
Flavors] vanilla	
Œ		■ chocolate	
1. Hov	v mo	any more stude	nts liked chocolate than liked vanilla? students
2. Ho	w m	any total stude	ents were asked about their favorite ice cream flavor?
2. Hov	w m	any total stude	ents were asked about their favorite ice cream flavor? students
2. Hov	w m	Ties on Sho	students
v			oesstudents
v		Ties on Sh	oesstudents
Types of Tipe	201 201	Ties on Sho velcro	oesstudents
.s Types of Shoo Ties		velcro laces no ties	oesstudents

Each student in the class added a sticky note to show his or her favorite kind of pet. Use the table to answer the questions.

Favorite Pet dog fish 00 Number of Students 00 <u>.</u>

5.	How many	students	chose doa	s or cats	as their	favorite	pet?
J.	riow many	/ STUDENTS	chose dog	5 01 Cuis	us men	Juvoille	Pε

students

6. How many more students chose dogs as their favorite pet than cats?

students

7. How many more students chose cats than fish?

students

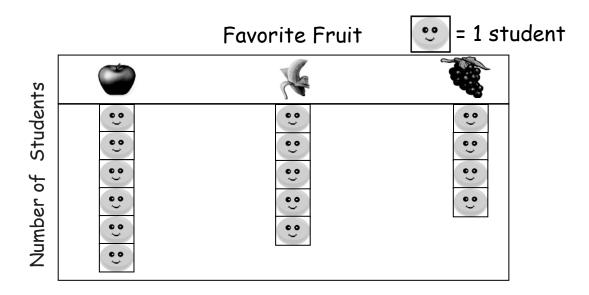
Use the table to answer the questions. Fill in the blank, and write a number sentence to the right to solve the problem.

School Day Weather

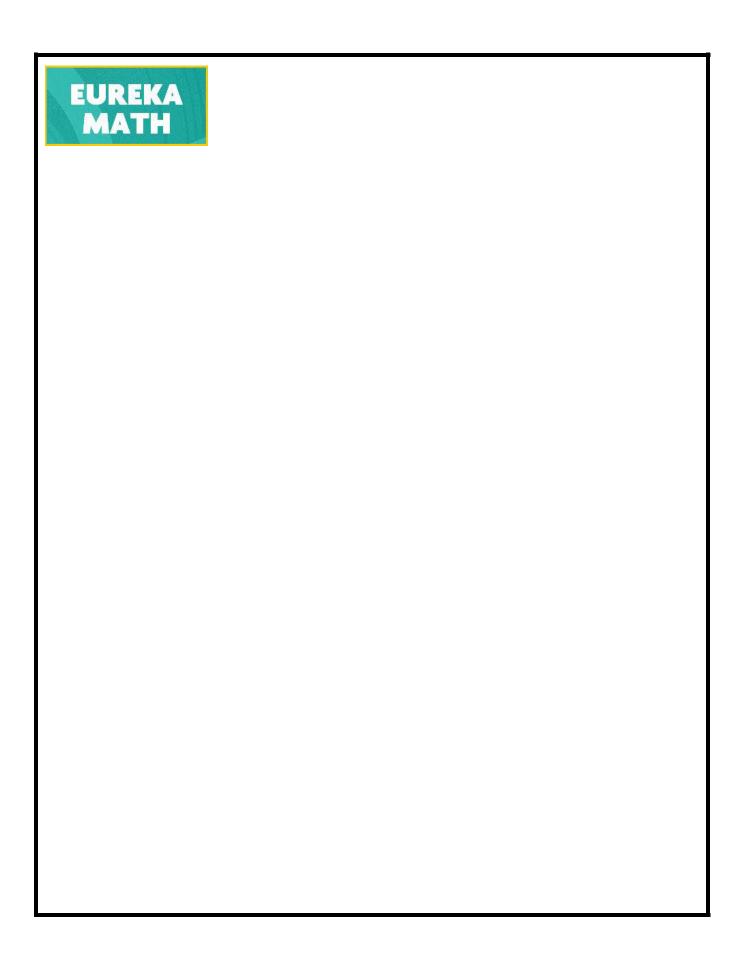
	sunny D	rainy 💝	cloudy 👄
Number of School Days			

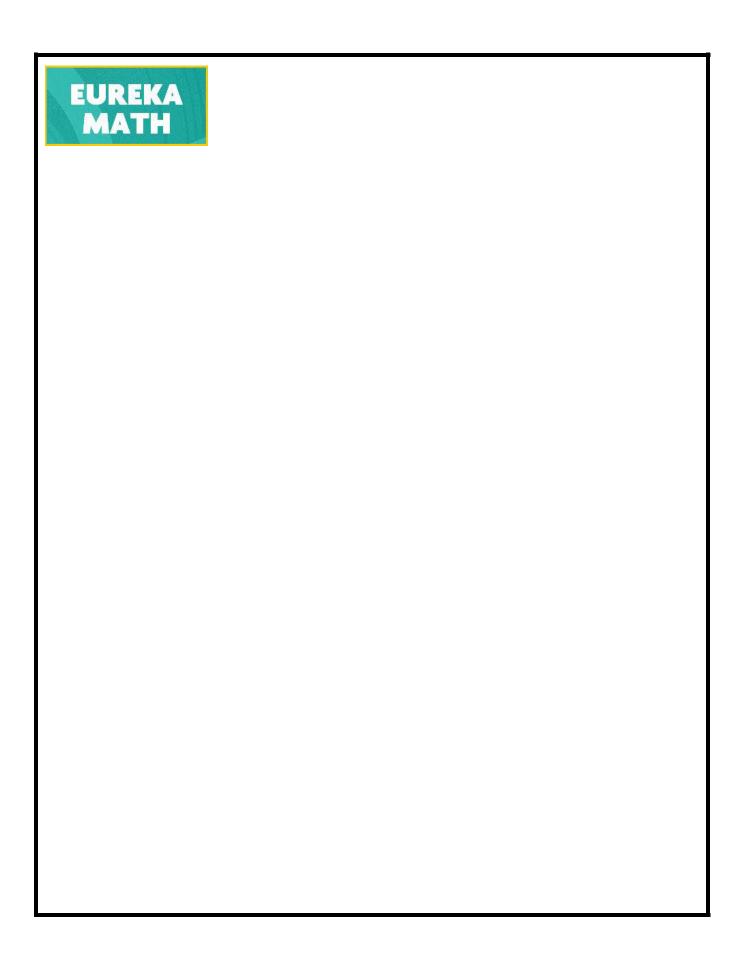
1. _	How many more day(s) were cloudy than sunny? more day(s) were cloudy than sunny.
2.	How many fewer days were cloudy than rainy? more day(s) were cloudy than rainy.
3.	How many more days were rainy than sunny? more day(s) were rainy than sunny.
4.	How many total days did the class keep track of the weather? total days
5.	If the next 3 school days are sunny, how many of the school days will be sunny in all? days will be sunny.

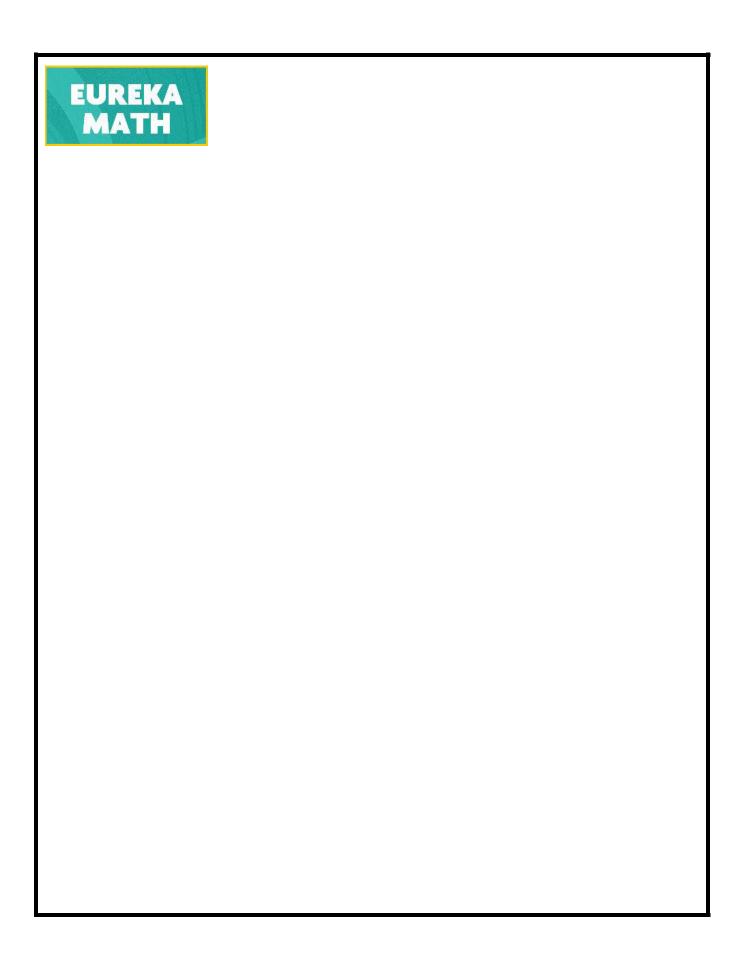
Use the table to answer the questions. Fill in the blank, and write a number sentence that helps you solve the problem.

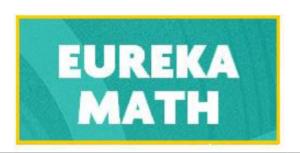


6.	How many fewer students chose bananas than apples?
	fewer students chose bananas than apples.
7.	How many more students chose bananas than grapes?
	more students chose bananas than grapes.
8.	How many fewer students chose grapes than apples?
	fewer students chose grapes than apples.
9.	Some more students answered about their favorite fruits. If the new total number of students who answered is 20, how many more students answered?
	more students answered the question.









Video tutorials: http://embarc.online

