Franklin County School District

School Closure Packet

Week Four: April 13 – 17, 2020

Grade: PRE-K, K, 1, 2, 3, 4, 5, 6,
7, 8, 9, 10, 11, 12 (Please circle)

Name:

Homeroom or First Period Teacher:

Guided Instruction

WORDS TO KNOW

culture
ruins
tomb

Look for the **main idea** of a text. Find **key details** and explain how they **support the main idea.**

CITE EVIDENCE

A In an informational text, **details** in the title can point toward the **main idea**. In the title, draw a circle around three words that tell the main focus of this text.

B The author usually tells the reader the main idea early in the text. In paragraph 2, underline the sentence that tells the main idea. Why do scientists study things from long ago?

The Amazing Tomb of Tut

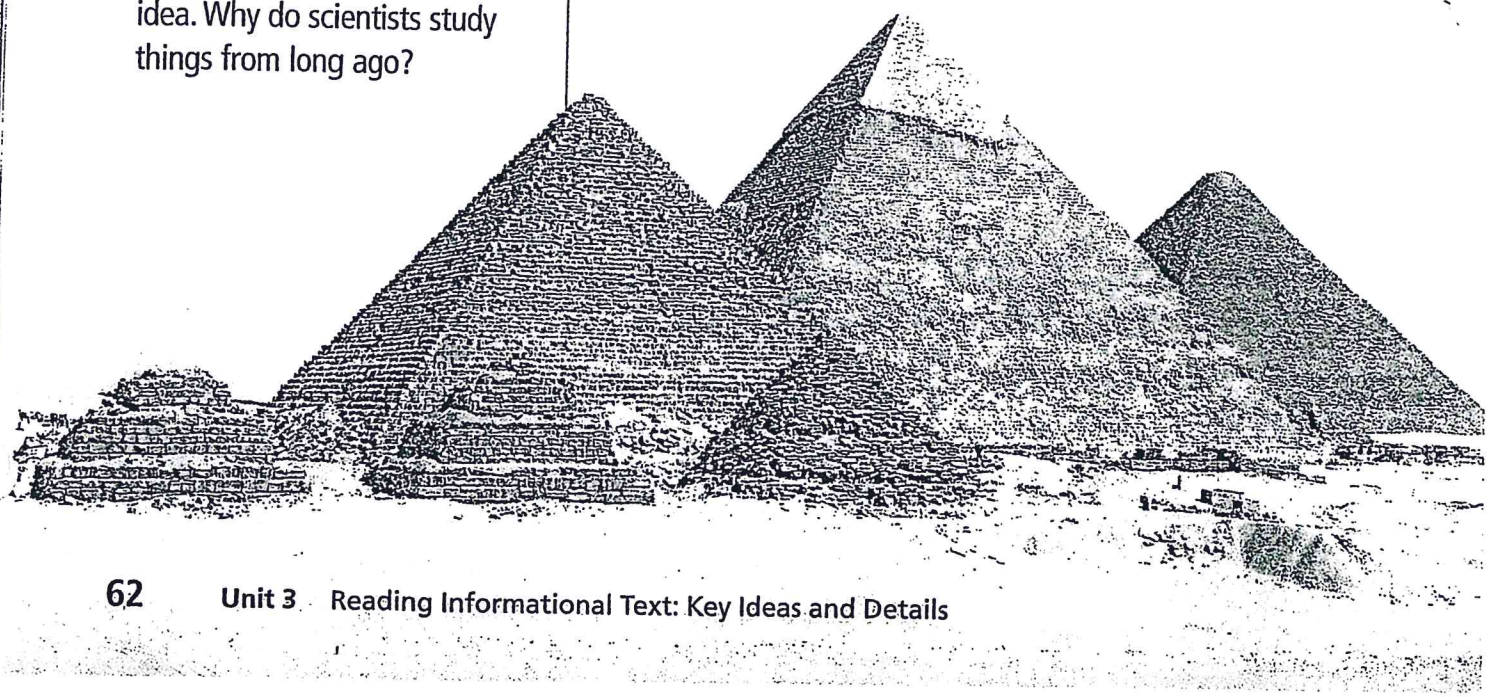
(Genre: Historical Text)

1 Howard Carter was a British scientist. He studied old cultures by digging up their **ruins**. He was very interested in Egypt. Its **culture** was thousands of years old. Ancient Egyptians made the pyramids and the Sphinx.

2 In 1922, Carter was digging in a part of Egypt called the Valley of the Kings. He had been working there for five years. Many Egyptian kings and queens were buried there thousands of years ago. Carter was searching for undiscovered **tombs**. He would soon find an amazing and important tomb.

Who Was King Tut?

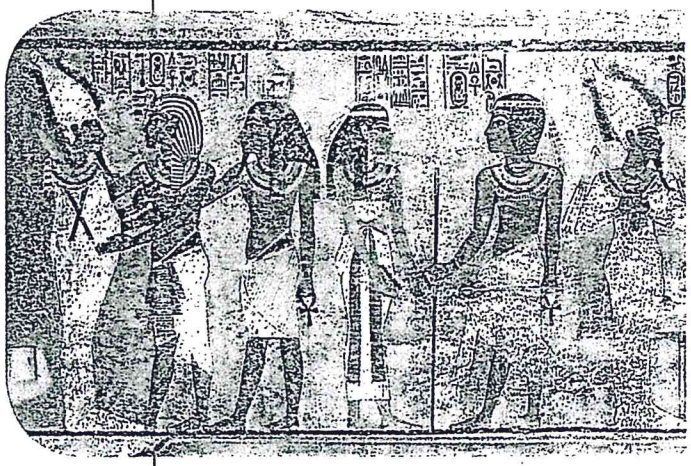
3 Tutankhamun became pharaoh, or king, about 3,300 years ago. His name means "living image of the god Amun." We often call him "King Tut." During the time of his rule, Egyptians believed their kings were gods.



Tut started his rule when he was nine years old. This was a difficult time in Egypt. Tut's father had made many changes in Egypt. He changed how the empire was run. He had forced Egyptians to change their religion. Many Egyptians were unhappy with what he did.

When Tut took the throne, he turned back his father's changes. After that, we know almost nothing about his rule. He was in poor health and died at the age of 19. Most of the facts about his rule were wiped out by the next rulers. Tut and his tomb were forgotten.

A wall painting inside Tut's tomb



Life After Death

Egyptians believed in life after death. They built huge tombs for their rulers. The tombs took a long time to build. Sometimes work went on for the ruler's entire life.

Rulers and their subjects filled the tombs with things they thought the dead needed. These items included gold, jewelry, and furniture. People also thought the dead needed supplies for daily living. So they included spices, grains, and clothing.

Because Tut ruled for only 10 years, his tomb was not ready. He was buried in a tomb meant for another person. The entryway was covered by stones and dirt from other buildings.

Comprehension Check

What details from the text help the reader understand why King Tut and his tomb were most likely forgotten?

CITE EVIDENCE

C Authors include details that support the main idea of the text. In paragraph 5, underline important details about King Tut.

D Authors also explain things so readers can understand the main idea. In paragraphs 6 and 7, circle details about Egyptian life that readers need to know. How do these details help you understand Tut's world?

Guided Practice

WORDS TO KNOW

chamber
mummy
royal
sarcophagus

CITE EVIDENCE

A In this section, the author uses time order to provide details about finding the tomb. In paragraphs 10 and 11, circle words that show time passing as the details unfold.

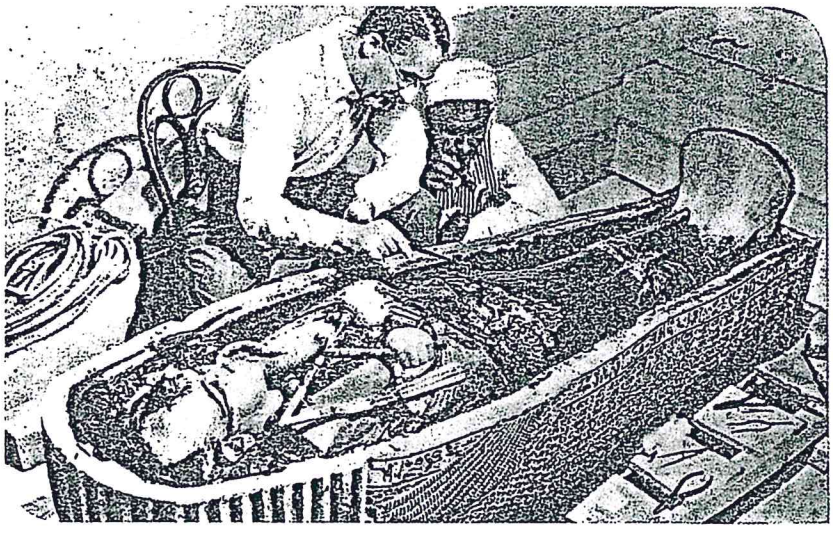
B The author gives a step-by-step account of the discovery of the tomb. In paragraphs 11 and 12, underline the details that tell about this. How do these details support the main idea?

9 Over the years, robbers broke into most of the Egyptian pharaohs' tombs. They stole the treasures. Untold thousands of valuable pieces were lost. However, nobody touched the rich Tut tomb, until Howard Carter was able to find it on November 5, 1922.

The Discovery

10 Carter stumbled upon Tut's tomb while checking other ruins. He uncovered a rock stairway going down into the ground. First, workers cleared it step by step. At the bottom, they found a sealed doorway. The door had **royal** signs with Tut's name. Carter made a small hole at the top of the door. He then used a flashlight to look inside. Behind the door was a passage filled with rocks. Carter was sure he had found a major tomb.

11 Three weeks later, Carter and his crew entered the tomb. They opened the first door and started clearing the rocks. By the next day, they got to a second door. This was sealed like the first door. Again, Carter dug a hole to look inside. "Can you see anything?" someone asked. "Yes, wonderful things," Carter answered.



12 It was wonderful! The walls were covered with paintings about the king's life. There were beautiful couches and carved chairs. There were flowers and vases and a gold chariot. There were giant statues of gods. And between the statues was another doorway. This led to the burial **chamber**.

13 Inside the chamber was the **sarcophagus**. This was the human-shaped coffin that held Tut's **mummy**. Carter opened the top. Inside was another sarcophagus. Inside that one was a third. This final one was made of solid gold! Here was the final resting place of King Tut.

Comprehension check

1. What details told Carter he had found an important tomb?

a. The passage was filled with rocks.

b. The tomb had more than one door.

c. Ancient writings said Tut's tomb was important.

d. The tomb's doors were sealed and had royal signs.

2. What was the room outside the burial chamber filled with?

a. mummies

b. rocks and dirt

c. traps for robbers

d. valuable treasures

3. Working with a partner, read the text to find details about what happened to most Egyptian kings' tombs. How do these details help explain the importance of Tut's tomb?

Independent Practice

WORDS TO KNOW

log book
original
preserved

CITE EVIDENCE

A The author describes the care the workers took with Tut's treasures. In paragraphs 15 and 16, underline details that show this.

B In the article's final section, the author restates the main idea. Circle the two sentences in paragraph 18 that do this. How did Carter's find help other scientists?

Why Did It Take So Long?

14 It took three years for Carter to go from finding the stairway to seeing Tut's mummy. It took another five years for the whole tomb to be studied. Why did it take so long?

15 All of the work was done by hand. Outside the tomb, digging was done with shovels and rakes. Workers had to pick up rocks and carry them away. Inside the tomb, special care had to be taken so that objects were not broken. Small hand brooms and rags were used to clean objects. Because of their age, many objects had to be **preserved** in place. If not, they could crumble to dust.

16 Special machines had to be built inside the tomb. These machines helped remove the golden coffin from the outer coffins. New ways of working had to be figured out so nothing was destroyed. Each piece in the tomb had to be photographed and described in a **log book**. Then the pieces were wrapped carefully and shipped to a museum.

Why Was It So Important?

17 Before Tut's, no Egyptian tombs had been found in their **original** condition. Scientists knew about ancient Egypt from writings and paintings, but they had found very few actual objects from that period.

18 The items found with Tut were beautiful and valuable. More importantly, they taught scientists much about ancient Egyptian life. The statues and artwork told about the religion. The jewelry and crafts told about the work Egyptians did. The seeds and grains told about the foods they grew and ate. The woods and metals told about other peoples the Egyptians traded with.

19 Tut's mummy itself revealed details about Egyptian royalty. Eighty years later, scientists used modern tests on the mummy. They learned about Tut's parents and sisters. They learned about his health and possible reasons for his death. And they confirmed the existence of a royal family that had been erased from Egyptian memory.

Comprehension Check

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1. What is the most important thing that researchers got from the items in Tut's tomb?

   a. the value of gold in ancient Egypt

   b. information about ancient Egyptian life

   c. the honor of being the first to see them

   d. details about Tut's illness and treatment

2. What is the purpose of each section of the text?

   a. to explain the death of King Tut

   b. to tell the story of Howard Carter

   c. to support the main idea about Tut's tomb

   d. to tell what happened during King Tut's rule

3. What is the main idea of the section "Why Did It Take So Long?" List the facts that the article uses to support the main idea.

Proofreading Marks

- Capitalize letter.
- Add a period.
- Add a question mark.
- Add a comma.
- Take words out.
- Spell correctly.
- Indent.
- Lowercase letter.
- Add words.

Name: _____

Editing: How many mistakes can you find?

Anthony Visits Nick

On sunday, Anthony went over to Nicks house to play basketball. They played a gam of one-on-one. Anthony made six baskets, bute nick made eight Nick was the winner. After the game, both boys whent in side to have some snack's and watch television.

Name _____ Date _____

Writing Prompt

Directions: Read "Tower Power." Describe where the monument is located and why it was built. Describe how long it took to build and some interesting facts about it. What is one way that it is used today? Use text evidence to support your writing.

Checklist_____ indent _____ topic sentence _____ grammar _____ capital letters ____ transitions _____ details _____ text evidence ____ concluding

Tower Power

Have you ever visited an important monument?

1 When someone mentions Paris, France, you might think of the Eiffel Tower. Do you know why it was built?

2 In the 1880s, the people of Paris were getting ready to celebrate the centennial of the French Revolution. This anniversary was going to occur in 1889, and the French wanted to build a special monument for this important day. A contest was held for the best design. More than seven hundred entries were received. The tower designed by Alexandre-Gustave Eiffel was immediately chosen as the best, and in 1887, construction was begun.

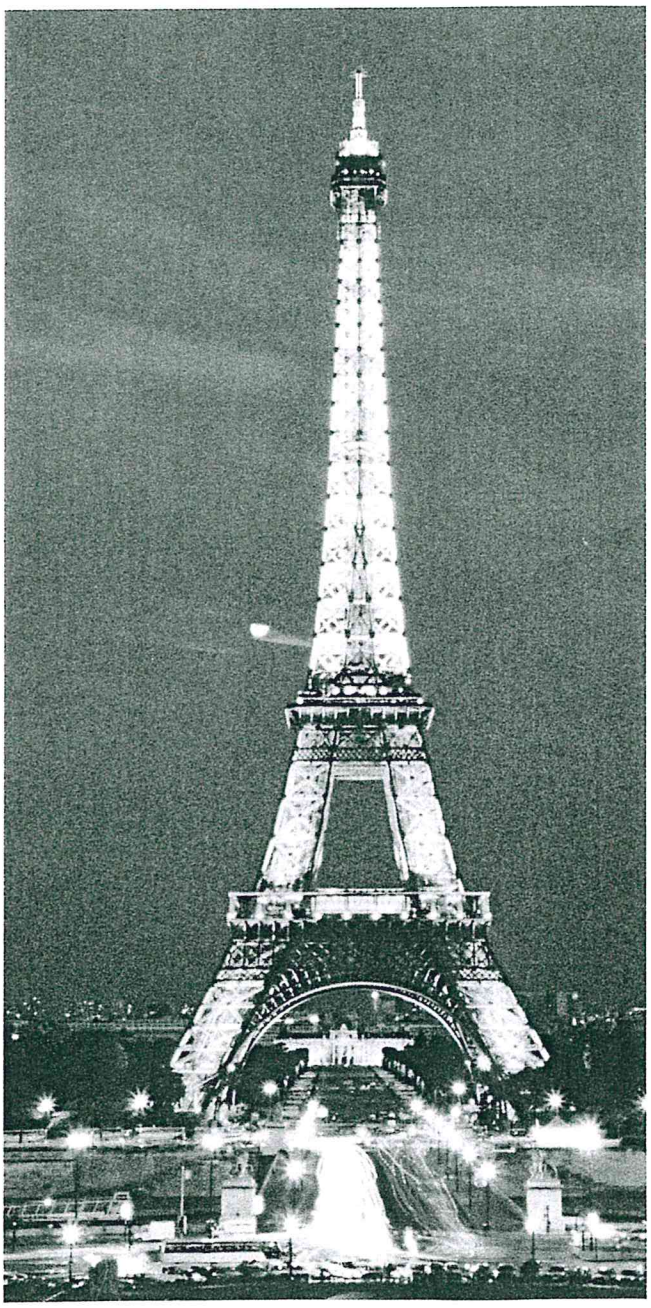
3 It took two years to build the Eiffel Tower. On March 31, 1889, the tower was finished and a flag was flown from the flagpole at the top. At 1,052 feet, it was the tallest building in the world, and it held that record until 1930. During its first year, two million visitors came to see the tower. Some of them climbed the 1,665 steps to get to the highest platform. A person standing at the top can see 42 miles away on a clear day!

4 It might seem as though something as large as the Eiffel Tower would be very solid. In fact, the tower moves all the time. On windy days, it sways by almost five inches! The tower's height also changes by as much as six inches, depending on the weather.

5 Although the Eiffel Tower is very popular today, it was almost torn down in 1909 because there were not as many people coming to see it. Luckily, the invention of the radio saved the tower. Because the tower was so tall, it was the perfect place to put an antenna for sending and receiving radio waves. When television came along, the tower was also used to transmit television programs.

6 Over the years, people have done some strange things at the Eiffel Tower. In 1954, a mountaineer climbed the outside of the tower. In 1984, two people parachuted from the top deck. Someone even rode a bicycle down hundreds of stairs from the first platform to the ground.

7 Today, the Eiffel Tower is as popular as ever. With almost seven million visitors a year, the Eiffel Tower has become the most well-known symbol of Paris.



NAME _____

1. Number the events below from **1** to **5** to show the order in which they happened.

_____ A mountaineer climbed the side of the tower.
_____ The Eiffel Tower was almost torn down.
_____ Alexandre-Gustave Eiffel's design was chosen.
_____ Two people parachuted from the top deck of the tower.
_____ France celebrated its centennial.

2. Why was the Eiffel Tower built?

_____

_____

3. How long did it take to build the Eiffel Tower?

_____

_____

4. How far does the tower sway on windy days?

_____

5. Do you think the French will want to tear down the Eiffel Tower in the future? Why or why not?

_____

_____

6. What saved the Eiffel Tower in 1909?

_____

_____

Write the words from the article that have the meanings below.

7. marking the date of something that happened 100 years ago

_____
Par. 2

8. the date every year that marks a special event

_____
Par. 2

9. a statue or building that helps people remember something important

_____
Par. 2

10. a raised surface, like a stage

_____
Par. 3

5-Minute Daily Review

Week 26, Monday

Name _____

☆☆☆☆☆ Third Grade

Write the word from the box to match the collective noun.

cattle	hens	cards

brood of _____

deck of _____

herd of _____

Write the reflexive pronoun on the line.

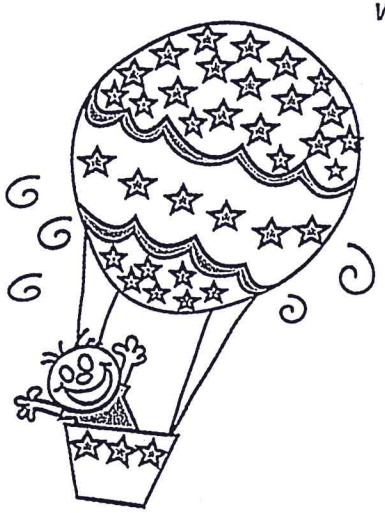
The team cheered for _____ when they won the game.

themselves or **theirselves**

Edit the sentence.

we goes to the hot air balloon festival in denver colorado last week

_____



Write an adjective or adverb from the box to describe the word.

quick	quickly

She ran _____.

Write the past tense of the verb.

Today, Tony fights.

Yesterday, Tony _____.

Challenge: Choose one box above. On the back, write your own 5-Minute Warm-Up questions similar to the questions in the box.

5-Minute Daily Review

Third Grade

Week 26, Tuesday

Name _____

Write the word from the box to match the collective noun.

trees	bills	information

wealth of _____

wad of _____

orchard of _____

Write the reflexive pronoun on the line.

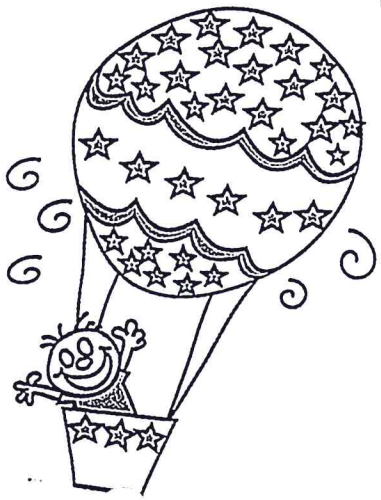
Jason hurt _____ when he fell.

hisself or **himself**

Edit the sentence.

they has a annual balloon festival in tracy california, to

_____



Write an adjective or adverb from the box to describe the word.

quick	quickly

He ate a _____ lunch.

Write the past tense of the verb.

Today, Jessie speaks.

Yesterday, Jessie _____.

Challenge: Choose one box above. On the back, write your own 5-Minute Warm-Up questions similar to the questions in the box.

5-Minute Daily Review

Week 26, Wednesday

Name _____

Third Grade

Write the word from the box to match the collective noun.

flies	fish	mountains

school of _____

range of _____

swarm of _____

Write the reflexive pronoun on the line.

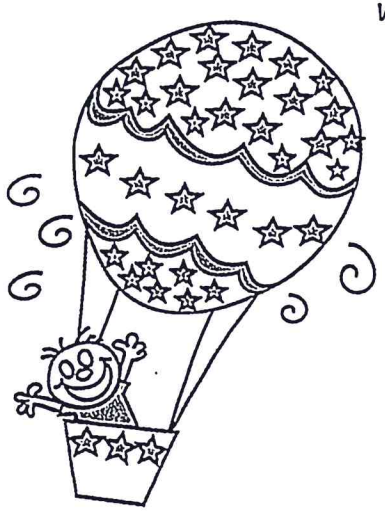
We gave _____ a pat on the back because we did well on our project.

ourselfs or **ourselves**

Edit the sentence.

i went to a festival in waterloo iowa on june 14 2014

_____



Write an adjective or adverb from the box to describe the word.

happy	happily

The _____ little boy played outside.

Write the past tense of the verb.

Today, Dad drives.

Yesterday, Dad _____.

Challenge: Choose one box above. On the back, write your own 5-Minute Warm-Up questions similar to the questions in the box.

5-Minute Daily Review

Third Grade

Week 26, Thursday

Name _____

Write the word from the box to match the collective noun.

flowers	lions	puppies

pride of _____

bouquet of _____

litter of _____

Write the reflexive pronoun on the line.

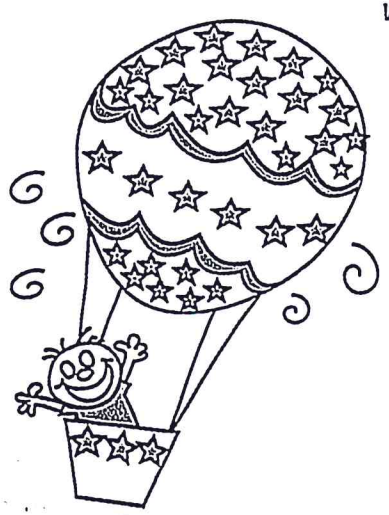
The girls helped _____ to a bottle of water.

themselves or **themselfs**

Edit the sentence.

we seen red balloons yellow balloons and blue balloons

_____



Write an adjective or adverb from the box to describe the word.

happy	happily

The girl played _____ in her room.

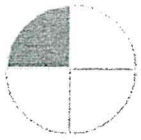
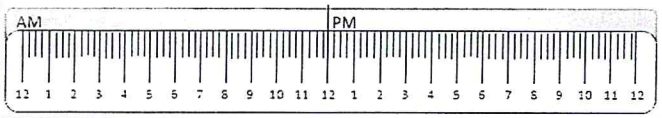
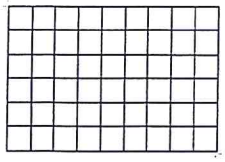
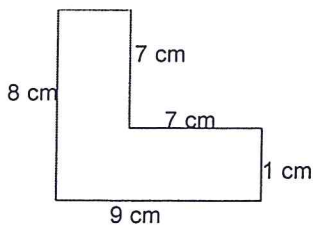
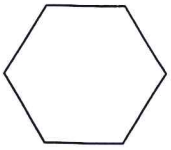
Write the past tense of the verb.

Today, I bring my lunch.

Yesterday, I _____ it.

Challenge: Choose one box above. On the back, write your own 5-Minute Warm-Up questions simi o the questions in the box.

Name: Weekly Math Review – Q4:4 Date:

Monday	Tuesday	Wednesday	Thursday
Order the numbers from greatest to least. 903 309 994	Round each number to the nearest 10 and 100. | | 10 | 100 | | 678 | | | | 298 | | | | 305 | | |	Write the number 806 in each form. Word: Expanded:	There are 471 trees at Berchmeer Park. To the nearest hundred, about how many trees are there at Berchmeer Park?
Vanessa has 498 baseball cards. Her dad buys her the latest set of 792 cards. How many cards does Vanessa now have?	There are 48 cookies at the holiday party. 8 of the party guests are going to share the cookies. How many cookies will each guest receive?	Carlos does 138 jumping jacks during gym class. John only does 89. How many more jumping jacks did Carlos do than John?	On Valentine's Day, Jessie wants to give each of his 8 best friends 3 lollypops. How many lollypops will he need to buy?
Find the product. 2 x 5 = ____ 4 x 8 = ____ 3 x 10 0 x 5 8 x 9	Find the quotient. 28 ÷ 7 = ____ 66 ÷ 11 = ____ 60 ÷ 6 = ____ 56 ÷ 8 = ____	Find the product. 5 x 7 = ____ 7 x 12 = ____ 6 x 12 7 x 9 6 x 4	Find the quotient. 45 ÷ 5 = ____ 48 ÷ 8 = ____ 45 ÷ 9 = ____ 36 ÷ 12 =
What are the attributes of the shape below? 	Draw a fraction that is equivalent to 1/4. 	Draw a shape with 4 equal sides.	Fill in the missing number. $\frac{6}{2} = \square$ $\frac{5}{5} = \square$
Compare the fractions using >, <, or =. $\frac{8}{12} \bigcirc \frac{4}{12}$	Buddy the dog ate 1/3 of a bowl of food. Freddy the dog ate 1/4 of a bowl of food. Who ate more food?	Compare the fractions using >, <, or =. $\frac{4}{8} \bigcirc \frac{4}{12}$	On Monday, Luis watched 1/2 hour of TV. On Tuesday, he watched 1/6 of an hour of TV. On which day did Luis watch more TV?
Jan and Susan went to the movies. It was 2 hours and 18 minutes long. It ended at 6:00pm. What time did it start? 		Jan and Susan went to the movies. The movie started at 5:45 and ended at 7:33. How long was the movie? 	
Sandra has 5 toy cars. Each toy car has a mass of 8 grams. What is the total mass of all 5 cars?	For snack, Carlos is eating a banana and a bowl of grapes. The banana has a mass of 75 grams, and the grapes have a mass of 48 grams. What is the total mass of Carlos's snack?	A pencil has a mass of 25 grams. If there are 8 pencils, what is the total mass of all the pencils?	A strawberry has a mass of 18 grams. If there are 10 strawberries, what is the total mass of all the strawberries?
What is the perimeter of the rectangle below?  What is the area?	Find the perimeter and area. 	Find the perimeter of the rectangle.  What is the area?	The perimeter of a regular hexagon is 18 inches. What is the length of each side?  Hint: Regular hexagons have 6 equal sides.

Name : _____ Score : _____

Teacher : _____ Date : _____

5 Minute Drill

10 x 3	6 x 7	9 x 2	7 x 10	10 x 4	12 x 11	1 x 6	8 x 1	3 x 8	12 x 4
12 x 12	1 x 0	0 x 1	12 x 3	4 x 9	8 x 11	0 x 7	10 x 10	7 x 1	0 x 6
7 x 12	9 x 0	10 x 12	8 x 9	2 x 10	9 x 9	8 x 0	8 x 3	11 x 12	12 x 0
12 x 10	3 x 3	6 x 10	10 x 7	1 x 5	6 x 3	3 x 11	0 x 9	8 x 12	0 x 11
1 x 9	8 x 6	11 x 0	12 x 9	4 x 3	6 x 1	2 x 9	3 x 10	5 x 11	10 x 11
5 x 7	7 x 7	2 x 2	12 x 7	0 x 10	5 x 8	4 x 8	1 x 10	4 x 12	11 x 10
9 x 10	4 x 7	3 x 6	1 x 11	4 x 2	5 x 10	8 x 10	6 x 11	11 x 6	1 x 4
0 x 0	9 x 7	2 x 12	10 x 9	4 x 0	9 x 1	11 x 8	12 x 5	4 x 6	6 x 2
5 x 12	6 x 12	4 x 11	2 x 0	6 x 6	7 x 9	9 x 11	11 x 7	1 x 7	11 x 4
9 x 4	3 x 9	12 x 8	3 x 2	11 x 2	0 x 3	6 x 8	7 x 2	3 x 12	1 x 1

Common Core Standards:
3.OA.3, 3.OA.8

Multiplication Word Problems

Getting the Idea

With multiplication word problems, look for key phrases to help you solve the problem.

How many in all means you need to find the product.

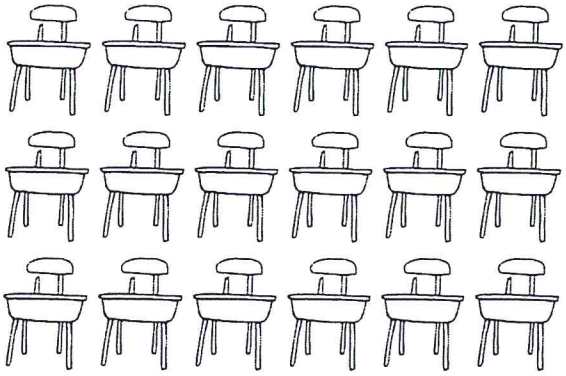
How many in each group or *how many groups* means you need to find one of the factors.

Remember, the numbers being multiplied are the factors and the answer is the product.

When you write a multiplication sentence, remember to use a symbol or letter to represent the unknown number.

Example 1

In a classroom, there are 3 rows of student desks. There are 6 student desks in each row.



How many student desks are in the classroom?

Strategy **Write a multiplication sentence. Then double a known fact to solve.**

Write a multiplication sentence.

There are 3 rows. There are 6 desks in each row.

number of rows × number in each row = total number

3 × 6 = □

One of the factors is 6.

6 is a double of 3.

Think of a known fact: 3×3.

$3 \times 3 = 9$

6 is the double of 3, so double the product of 3×3.

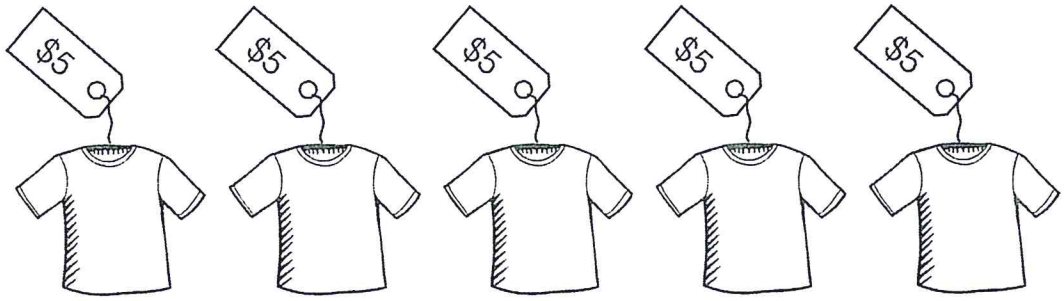
$9 + 9 = 18$

So, $3 \times 6 = 18$.

Solution **There are 18 student desks in the classroom.**

Example 2

Mr. Cole bought 5 T-shirts. Each T-shirt costs $5.



How much did Mr. Cole spend in all on T-shirts?

Strategy **Write a multiplication sentence. Then use repeated addition.**

Write a multiplication sentence. Use the symbol ☐ for the product.

5 shirts at $5 each = 5 groups of 5

$5 \times 5 = \square$

Add 5 five times.

$5 + 5 + 5 + 5 + 5 = 25$

So, $5 \times 5 = 25$.

Solution **Mr. Cole spent $25 on 5 T-shirts.**

Example 3

Three groups signed up to hike on a trail. Each group has 7 people.
How many people in all are on the trail?

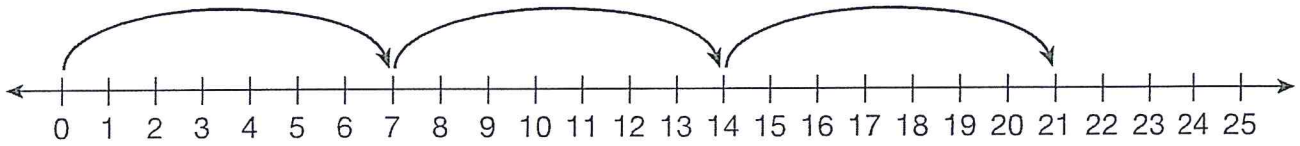
Strategy **Write a multiplication sentence. Then use skip counting to solve.**

Write a multiplication sentence.

3 groups of 7 people = 3 groups of 7

$3 \times 7 = \square$

Skip count by 7 three times.



So, $3 \times 7 = 21$.

Solution **There are 21 people on the trail in all.**

Another phrase you might see in a word problem is *times as much*.
This is another clue that you need to multiply.

Example 4

Sally's ribbon is 4 inches long. Tania's ribbon is 6 times as long as Sally's.
How long is Tania's ribbon?

Strategy **Write a multiplication sentence. Then use repeated addition.**

Write a multiplication sentence.

You know Sally's ribbon is 4 inches long and Tania's ribbon is 6 times as long.

6 times as long as 4 is the same as 6×4.

$6 \times 4 = \square$

Add 6 four times.

$6 + 6 + 6 + 6 = 24$

So, $6 \times 4 = 24$.

Solution **Tania's ribbon is 24 inches long.**

Example 5

Daniel has 2 fish tanks. He has 12 fish in each tank. James has fewer fish than Daniel. Together they have 32 fish. How many fish does James have?

Strategy **Write number sentences to model the problem.**

First, find the number of fish Daniel has.

Write and solve a multiplication sentence.
Use the symbol ☐ for the product.

You know Daniel has 2 fish tanks with 12 fish in each tank.

$2 \times 12 = \square$

$2 \times 12 = 24$

Next, find the number of fish James has.

Write and solve a subtraction sentence.
Use the symbol ☐ for the difference.

You know that together they have 32 fish.

$32 - 24 = \square$

$32 - 24 = 8$

Solution **James has 8 fish.**

Coached Example

At Buddy's Bakery a cookie costs $2. A cake costs 4 times as much as a cookie. How much does a cake cost at Buddy's Bakery?

Write a multiplication sentence.

A cookie costs $_____ and a cake costs _____ times as much.

_____ × _____ = ☐

Use doubling to solve. Double _____.

_____ + _____ = _____

So, _____ × _____ = _____.

A cake costs $_____ at Buddy's Bakery.

Name : _____ Score : _____

Teacher : _____ Date : _____

5 Minute Drill

2 x 1	5 x 0	12 x 1	0 x 5	3 x 10	6 x 7	2 x 9	5 x 11	1 x 12	4 x 1
10 x 4	8 x 12	2 x 12	6 x 3	4 x 9	8 x 4	5 x 2	10 x 0	12 x 3	6 x 5
5 x 9	11 x 0	4 x 8	0 x 3	5 x 5	8 x 0	4 x 11	4 x 7	0 x 9	8 x 9
10 x 5	11 x 9	4 x 0	7 x 12	0 x 11	6 x 11	6 x 8	9 x 8	7 x 8	9 x 0
8 x 5	10 x 6	4 x 4	7 x 9	5 x 12	12 x 10	5 x 7	0 x 12	3 x 8	1 x 6
11 x 3	2 x 10	10 x 7	5 x 8	2 x 3	1 x 5	8 x 2	2 x 8	11 x 11	3 x 6
7 x 2	5 x 1	6 x 4	12 x 5	4 x 10	11 x 5	0 x 6	4 x 6	11 x 8	1 x 3
8 x 1	1 x 9	8 x 8	6 x 9	10 x 3	4 x 2	0 x 8	10 x 9	4 x 12	0 x 1
2 x 0	10 x 10	2 x 7	10 x 11	9 x 5	3 x 12	3 x 5	11 x 12	1 x 8	3 x 7
1 x 1	5 x 3	9 x 9	0 x 10	9 x 1	7 x 10	9 x 2	1 x 7	6 x 0	6 x 6

Lesson Practice

Choose the correct answer.

1. Kelly baked 5 trays of muffins. Each tray holds 6 muffins. How many muffins did Kelly bake in all?

   ○ **A.** 11
   ○ **B.** 25
   ○ **C.** 30
   ○ **D.** 50

2. Mr. Field's garden has 8 rows of plants. Each row has 10 plants. How many plants does Mr. Field's garden have in all?

   ○ **A.** 18
   ○ **B.** 40
   ○ **C.** 70
   ○ **D.** 80

3. Steven bought 3 bags of potatoes. Each bag has 7 potatoes. How many potatoes did Steven buy in all?

   ○ **A.** 10
   ○ **B.** 21
   ○ **C.** 28
   ○ **D.** 30

4. Ebony has 7 bookshelves. She has 9 books on each shelf. Whitney has 12 more books than Ebony. How many books does Whitney have?

   ○ **A.** 75
   ○ **B.** 63
   ○ **C.** 51
   ○ **D.** 28

5. A toy car costs $5. A toy helicopter costs 3 times as much. How much does a toy helicopter cost?

   ○ **A.** $10
   ○ **B.** $15
   ○ **C.** $20
   ○ **D.** $30

6. Jesse's flower is 7 inches tall. Ted's flower is 2 times as tall as Jesse's. How tall is Ted's flower?

   ○ **A.** 7 inches
   ○ **B.** 9 inches
   ○ **C.** 10 inches
   ○ **D.** 14 inches

7. There are 5 parents driving the students from Ms. Alvarez's class to a play. There are 4 students in each car. How many students from Ms. Alvarez's class are going to the play?

○ **A.** 20

○ **B.** 24

○ **C.** 25

○ **D.** 30

8. There are 10 players on each basketball court. How many players are there on 6 basketball courts?

○ **A.** 30

○ **B.** 50

○ **C.** 60

○ **D.** 80

9. There are 4 lemon trees in Rasheed's backyard. There are 12 lemons growing on each tree.

A. Draw a model of the problem.

B. Write a multiplication sentence for the problem. Use the symbol ☐ for the product.

_____ × _____ = ☐

C. How many lemons in all are growing in Rasheed's backyard?

_____

10. Kaya went on 6 rides at the carnival. Each ride cost 3 tickets. How many tickets did Kaya use? Use numbers from the box to complete the multiplication sentence.

_____ × _____ = _____

2
3
6
18

11. Four students arranged counters in rows on their desks as shown in the table below.

Student	Counters
Saleema	4 rows with 8 counters in each row
Elisa	6 rows with 6 counters in each row
Manuel	9 rows with 5 counters in each row
Drew	7 rows with 6 counters in each row

Draw a line from each name to the correct number of counters.

A.	Saleema	45
B.	Elisa	32
C.	Manuel	42
D.	Drew	36

12. Who had 16 stickers in all? Mark all that apply.

- ○ **A.** Jenna had 2 sheets of stickers with 9 stickers on each sheet.
- ○ **B.** Morgan had 3 sheets of stickers with 6 stickers on each sheet.
- ○ **C.** Rob had 2 sheets of stickers with 8 stickers on each sheet.
- ○ **D.** Henry had 4 sheets of stickers with 4 stickers on each sheet.

13. Sadie had 8 stuffed animals. Ella had 4 times as many stuffed animals as Sadie. Which number sentence can be used to find the number of stuffed animals Ella had? Mark all that apply.

- ○ **A.** $4 + 8 = 12$
- ○ **B.** $4 \times 8 = 32$
- ○ **C.** $8 + 8 + 8 + 8 = 32$
- ○ **D.** $4 \times 3 = 12$

14. Mr. Cooper's classroom had 5 tables. There were 4 students at each table. Mrs. Garcia's classroom had 3 more students than Mr. Cooper's classroom. Circle the number that completes the sentence.

There were | 20 | 23 | 35 | students in Mrs. Garcia's classroom.

15. Trevor read 9 pages in his book each night for 6 nights. Then there were 4 pages left to read. How many pages were in Trevor's book? Use numbers from the box to complete the number sentences and the statement.

4
6
9
54
58

_____ × _____ = _____

_____ + _____ = _____

There were _____ pages in Trevor's book.

Name : _____ Score : _____

Teacher : _____ Date : _____

5 Minute Drill

6 x 4	8 x 12	1 x 10	1 x 6	5 x 6	4 x 7	11 x 4	9 x 9	5 x 2	2 x 2
6 x 8	6 x 11	0 x 11	4 x 4	9 x 4	1 x 4	12 x 3	7 x 11	8 x 4	0 x 7
3 x 3	10 x 7	6 x 12	5 x 3	6 x 3	2 x 1	2 x 7	3 x 1	11 x 2	8 x 3
3 x 9	7 x 4	0 x 2	3 x 6	5 x 7	5 x 8	0 x 12	12 x 12	11 x 6	10 x 1
2 x 12	10 x 5	0 x 0	3 x 7	12 x 7	3 x 2	11 x 12	7 x 2	0 x 10	4 x 1
11 x 5	0 x 3	4 x 11	5 x 10	5 x 4	2 x 9	9 x 5	11 x 1	1 x 0	3 x 12
8 x 5	7 x 5	4 x 0	12 x 5	8 x 9	12 x 8	10 x 4	11 x 9	3 x 5	5 x 12
5 x 0	7 x 7	9 x 2	5 x 1	6 x 10	10 x 12	1 x 12	5 x 9	9 x 10	12 x 1
6 x 9	10 x 3	6 x 1	1 x 7	4 x 3	5 x 11	8 x 8	0 x 9	0 x 6	7 x 12
3 x 0	1 x 2	0 x 4	3 x 4	7 x 10	3 x 8	12 x 10	0 x 8	1 x 9	1 x 3

Understand Division

Common Core Standards:
3.OA.2, 3.OA.3, 3.OA.4, 3.OA.7

Getting the Idea

You can use **division** to find the number of equal groups or the number in each equal group.

Here are the parts of a division sentence.

6	÷	3	=	2
dividend		**divisor**		**quotient**

Example 1

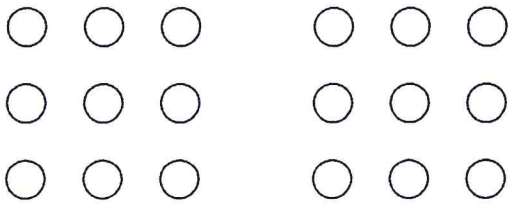
Find the quotient.

$18 \div 2 = \square$

Strategy **Draw a picture.**

Make 18 circles to show 18.

Make 2 equal groups.



Count how many are in each group.

There are 9 circles in each group.

Solution **18 ÷ 2 = 9**

You can use **repeated subtraction** to find the quotient.

Example 2

Find the quotient.

$12 \div 3 = \square$

Strategy **Use repeated subtraction.**

Start with 12. Subtract 3 until you reach 0.

$12 - 3 = 9$

$9 - 3 = 6$

$6 - 3 = 3$

$3 - 3 = 0$

Count the number of times you subtracted 3.

You subtracted 4 times.

Solution $12 \div 3 = 4$

You can use an array to find the number of equal groups.

Example 3

What division facts does this array of dimes show?

Strategy **Count the number of dimes, rows, and dimes in each row.**

Count the total number of dimes.

There are 32 dimes.

Count the number of rows.

There are 4 rows.

Count the number of dimes in each row.

There are 8 dimes in each row.

Write the division facts.

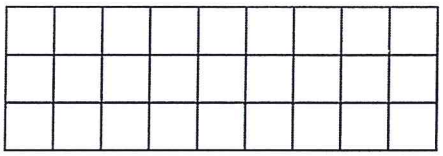
32	÷	4	=	8
total number of dimes		number of rows		number in each row

32	÷	8	=	4
total number of dimes		number in each row		number of rows

Solution **The array of dimes shows 32 ÷ 4 = 8 and 32 ÷ 8 = 4.**

Example 4

What division facts does this area model show?



Strategy **Count the number of squares, rows, and squares in each row.**

Count the total number of squares.

There are 27 squares in all.

Count the number of rows.

There are 3 rows of squares.

Count the number of squares in each row.

There are 9 squares in each row.

Write the division facts.

27 ÷ 3 = 9 and 27 ÷ 9 = 3

Solution **The area model shows 27 ÷ 3 = 9 and 27 ÷ 9 = 3.**

Multiplication and division are **inverse operations**, or opposites.

Inverse operations undo each other. So you can use a multiplication fact to solve a division fact, or a division fact to solve a multiplication fact.

A **fact family** is a group of related facts that use the same numbers.

Here is the fact family for 2, 3, and 6.

$3 \times 2 = 6$ $\quad$ $2 \times 3 = 6$

$6 \div 3 = 2$ $\quad$ $6 \div 2 = 3$

Example 5

These two sentences are in the same fact family.

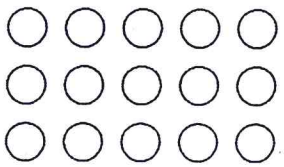
$3 \times \square = 15$

$15 \div \square = 3$

What number makes both sentences true?

Strategy **Make an array to show the sentences.**

Draw 15 counters in 3 rows.



Find the missing number in $3 \times \square = 15$.

3 rows of 5 counters equal 15.

$3 \times 5 = 15$

Find the missing number in $15 \div \square = 3$.

The 15 counters are in 3 equal rows of 5.

$15 \div 5 = 3$

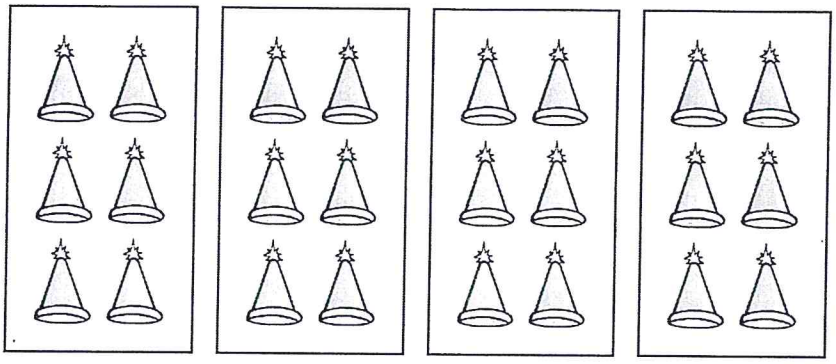
Solution **The number 5 makes both sentences true.**

$3 \times 5 = 15$

$15 \div 5 = 3$

Coached Example

What multiplication-division fact family does this picture show?



How many equal groups of hats are there? _____

How many hats are in each group? _____

How many hats are there in all? _____

Write the multiplication facts for this picture.

4 × _____ = _____

_____ × _____ = _____

Write the division facts for this picture.

24 ÷ _____ = _____

_____ ÷ _____ = _____

Name : _____ Score : _____

Teacher : _____ Date : _____

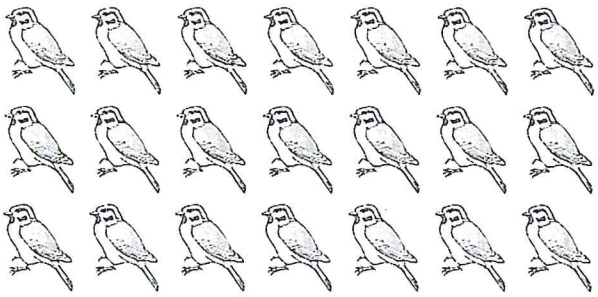
5 Minute Drill

4 x 9	10 x 12	12 x 0	12 x 10	2 x 10	7 x 4	8 x 10	11 x 6	10 x 6	10 x 9
2 x 11	12 x 9	0 x 6	10 x 3	1 x 2	4 x 5	9 x 1	10 x 0	8 x 5	9 x 7
4 x 6	6 x 9	4 x 2	1 x 4	0 x 1	1 x 10	2 x 5	2 x 0	4 x 11	3 x 5
10 x 2	2 x 6	0 x 0	1 x 1	5 x 4	10 x 7	9 x 8	7 x 6	0 x 5	3 x 6
6 x 4	6 x 11	1 x 0	0 x 9	11 x 3	8 x 8	11 x 4	12 x 8	11 x 11	9 x 9
2 x 4	5 x 1	3 x 8	9 x 3	12 x 6	6 x 5	9 x 5	1 x 6	10 x 5	9 x 10
4 x 10	4 x 7	1 x 11	11 x 9	5 x 2	9 x 2	5 x 5	8 x 0	0 x 8	8 x 4
8 x 9	9 x 6	7 x 3	11 x 12	12 x 3	1 x 8	3 x 11	7 x 10	0 x 7	10 x 10
12 x 5	7 x 12	9 x 11	3 x 2	11 x 5	3 x 0	2 x 3	3 x 1	12 x 1	12 x 2
5 x 11	7 x 9	6 x 1	2 x 9	0 x 11	3 x 10	5 x 10	5 x 3	1 x 12	2 x 8

Lesson Practice

Choose the correct answer.

1. Which division fact does this array show?



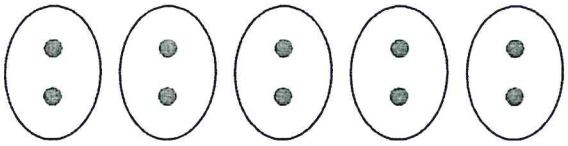
○ **A.** $15 \div 3 = 5$

○ **B.** $20 \div 5 = 4$

○ **C.** $21 \div 3 = 7$

○ **D.** $25 \div 5 = 5$

2. Which division fact does this picture show?



○ **A.** $20 \div 2 = 10$

○ **B.** $10 \div 5 = 2$

○ **C.** $5 \div 5 = 1$

○ **D.** $5 \div 1 = 5$

3. Which number makes this sentence true?

$16 \div 4 = \square$

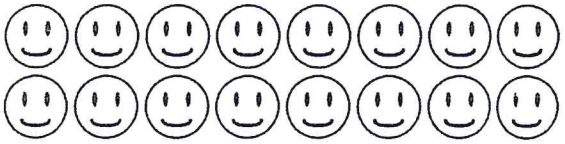
○ **A.** 4

○ **B.** 6

○ **C.** 8

○ **D.** 12

4. Which fact is **not** related to any of the other facts?



○ **A.** $16 \div 2 = 8$

○ **B.** $2 \times 8 = 16$

○ **C.** $8 \times 2 = 16$

○ **D.** $16 \div 4 = 4$

5. Which number makes both sentences true?

$40 \div \square = 4$

$4 \times \square = 40$

○ **A.** 10

○ **B.** 9

○ **C.** 8

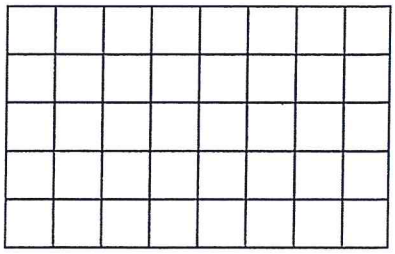
○ **D.** 7

6. Which multiplication fact can be used to find the missing number?

$36 \div \square = 9$

- ○ **A.** $2 \times 18 = 36$
- ○ **B.** $6 \times 6 = 36$
- ○ **C.** $9 \times 4 = 36$
- ○ **D.** $36 \times 1 = 36$

7. Which division fact does this area model show?



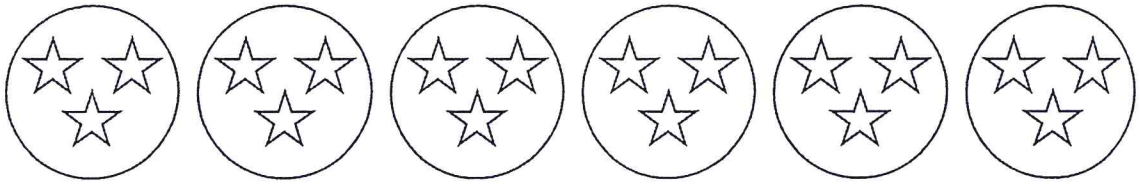
- ○ **A.** $60 \div 5 = 12$
- ○ **B.** $50 \div 10 = 5$
- ○ **C.** $40 \div 4 = 10$
- ○ **D.** $40 \div 5 = 8$

8. Find the quotient.

$48 \div 8 = \square$

- ○ **A.** 6
- ○ **B.** 7
- ○ **C.** 8
- ○ **D.** 9

9. Dennis drew the picture below.



A. Write two division facts for the picture.

_____

_____

B. Write two multiplication facts for the picture.

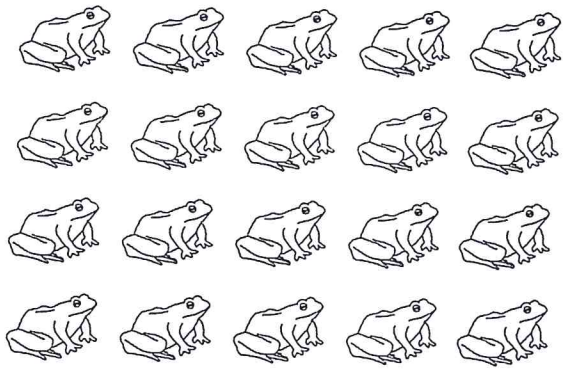
_____

_____

10. Circle the number that makes the sentences true.

$21 \div \boxed{\begin{matrix}6\\7\\8\end{matrix}} = 3$ $\qquad$ $3 \times \boxed{\begin{matrix}6\\7\\8\end{matrix}} = 21$

11. Use numbers from the box to complete the related facts for the picture.



____ ÷ ____ = ____

____ ÷ ____ = ____

____ × ____ = ____

____ × ____ = ____

4
5
20

12. Draw a line to the missing number in the sentence.

A. $54 \div 9 = \square$

B. $45 \div \square = 9$

C. $16 \div 2 = \square$

D. $28 \div 4 = \square$

E. $27 \div \square = 3$

5

6

7

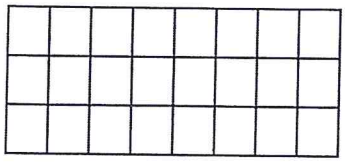
8

9

13. Which sentence has a quotient of 6? Mark all that apply.

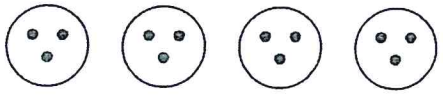
- ○ **A.** $36 \div 6 = \square$
- ○ **B.** $14 \div 2 = \square$
- ○ **C.** $48 \div 8 = \square$
- ○ **D.** $18 \div 3 = \square$
- ○ **E.** $56 \div 8 = \square$
- ○ **F.** $42 \div 7 = \square$

14. Select True or False for each division fact shown by the model.

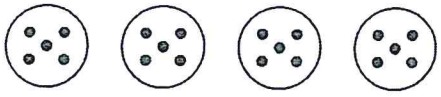


A. $24 \div 2 = 12$	○ True	○ False
B. $24 \div 3 = 8$	○ True	○ False
C. $24 \div 4 = 6$	○ True	○ False
D. $24 \div 8 = 3$	○ True	○ False

15. Draw a line from each picture to the division fact it shows.

A. 

$15 \div 5 = 3$

B. 

$12 \div 4 = 3$

C. 

$20 \div 4 = 5$

D. 

$25 \div 5 = 5$

Name : _____ Score : _____

Teacher : _____ Date : _____

5 Minute Drill

7 x 1	11 x 10	9 x 2	0 x 10	3 x 6	12 x 6	2 x 7	6 x 11	5 x 7	0 x 12
7 x 11	5 x 5	11 x 3	2 x 3	10 x 1	10 x 11	1 x 12	4 x 6	10 x 10	5 x 1
7 x 9	3 x 2	0 x 9	6 x 10	1 x 8	5 x 8	2 x 11	4 x 8	11 x 1	7 x 10
3 x 9	7 x 0	1 x 9	3 x 10	4 x 7	9 x 12	3 x 8	1 x 1	4 x 3	12 x 11
5 x 6	6 x 8	2 x 4	10 x 5	3 x 3	12 x 7	2 x 8	1 x 11	11 x 11	5 x 10
10 x 6	0 x 2	8 x 12	3 x 7	6 x 9	8 x 9	1 x 4	5 x 4	9 x 5	9 x 11
8 x 3	6 x 4	2 x 5	6 x 12	8 x 11	6 x 1	1 x 3	9 x 7	0 x 11	5 x 12
3 x 4	4 x 5	12 x 0	0 x 1	1 x 7	5 x 11	1 x 10	11 x 7	9 x 1	8 x 7
0 x 4	12 x 10	7 x 12	4 x 1	12 x 5	3 x 1	0 x 0	8 x 5	10 x 4	1 x 5
8 x 2	12 x 1	8 x 10	6 x 6	12 x 3	3 x 0	11 x 2	12 x 2	11 x 5	5 x 9

Common Core Standards:
3.OA.3, 3.OA.8

Division Word Problems

Getting the Idea

With division word problems, look for key phrases to help you solve the problem.

How many in each group or *how many groups* means you need to find the divisor or the quotient.

How many in all means you need to find the dividend.

When you write a division sentence, remember to use a symbol or letter to represent the unknown number.

Example 1

Tony wants to share 12 pencils equally among 3 friends. How many pencils will each friend get?

Strategy **Write a division sentence for the problem. Then draw a picture to solve.**

Write a division sentence. Use the symbol ☐ for the quotient.

There are 12 pencils. There are 3 friends.

total number of pencils	÷	number of friends	=	number of pencils each friend will get

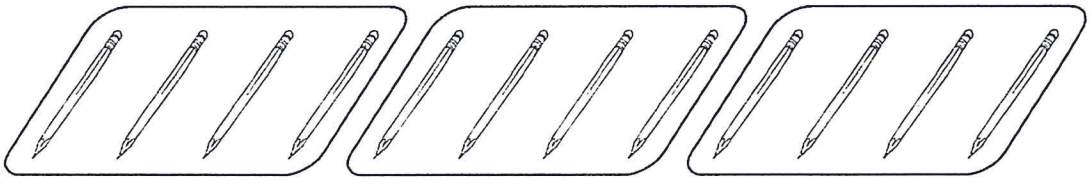
$12 \div 3 = \square$

Draw a picture.

Draw 12 pencils. Circle 3 equal groups.

There are 4 pencils in each group.

$12 \div 3 = 4$



Solution **The three friends will get 4 pencils each.**

Example 2

Casey picked 20 apples. She gave 4 apples each to some friends. She does not have any apples left. How many friends received apples from Casey?

Strategy **Write a division sentence. Then use repeated subtraction to solve.**

Write a division sentence. Use ☐ for the quotient.

There are 20 apples. Each friend got 4 apples.

total number of apples	÷	number of apples in each group	=	number of friends

$20 \div 4 = \square$

Use repeated subtraction.

Start with 20. Subtract 4 each time until you reach 0.

$20 - 4 = 16$

$16 - 4 = 12$

$12 - 4 = 8$

$8 - 4 = 4$

$4 - 4 = 0$

Count the number of times you subtracted 4.

You subtracted 5 times.

$20 \div 4 = 5$

Solution **Five friends received 4 apples each from Casey.**

Example 3

Mr. Frey has 24 students. He seated the students at 4 tables. Each table had the same number of students. How many students were at each table?

Strategy **Write a division sentence. Then use a related multiplication fact to solve.**

Write a division sentence. Use ☐ for the quotient.

There are 24 students in all. There are 4 equal groups of students.

total number ÷ number of groups = number in each group

$24 \div 4 = \square$

Use a related multiplication fact.

Think: $4 \times ? = 24$

$4 \times 6 = 24$

Multiplication and division are inverse operations.

So, $24 \div 4 = 6$.

Solution **Six students were at each table.**

Another phrase you might see in a word problem is *times as much*. This is another clue that you may need to divide.

Coached Example

A dozen flowers costs $28 and a plant costs $7. How many times as much does a dozen flowers cost as a plant?

Write a division sentence.

You know a dozen flowers costs $_____ and a plant costs $_____.

_____ ÷ _____ = ☐

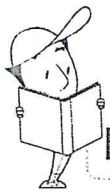
Use a related multiplication fact to help you solve the problem.

Think: $7 \times$ _____ $= 28$

Multiplication and division are inverse operations.

So, $28 \div 7 =$ _____.

A dozen flowers costs _____ times as much as a plant.



Lesson Practice

Choose the correct answer.

1. Nick has 48 DVDs in his collection. He keeps 6 DVDs on each shelf in a cabinet. How many shelves does Nick use for his DVDs?

   ○ **A.** 42
   ○ **B.** 8
   ○ **C.** 7
   ○ **D.** 6

2. Three friends share 30 marbles. Each friend gets the same number of marbles. How many marbles does each friend get?

   ○ **A.** 3
   ○ **B.** 4
   ○ **C.** 10
   ○ **D.** 27

3. Mrs. Martinez gave her 5 children $25 to share equally. How much money did each child receive?

   ○ **A.** $4
   ○ **B.** $5
   ○ **C.** $6
   ○ **D.** $20

4. Emma had 18 extra comic books to share. She divided them equally among 3 friends. How many comic books did each friend get?

   ○ **A.** 3
   ○ **B.** 6
   ○ **C.** 9
   ○ **D.** 15

5. Brenna has 16 flowers. She puts the same number of flowers into 4 bouquets. How many flowers are in each bouquet?

   ○ **A.** 4
   ○ **B.** 12
   ○ **C.** 32
   ○ **D.** 64

6. A bag of apples costs $6 and that is 3 times as much as a box of blueberries. How much does a box of blueberries cost?

   ○ **A.** $18
   ○ **B.** $12
   ○ **C.** $3
   ○ **D.** $2

7. There are 32 students who signed up for a clean-up project. They formed teams of 8 students each. How many teams did they form?

○ **A.** 4
○ **B.** 6
○ **C.** 24
○ **D.** 40

8. Will's toy train is 9 inches long. Lane's toy train is 36 inches long. How many times longer is Lane's train than Will's train?

○ **A.** 27
○ **B.** 18
○ **C.** 9
○ **D.** 4

9. Lilly baked 40 cookies. She shared her cookies equally among 4 friends. How many cookies did each friend receive?

A. Draw a model of the problem.

B. Write a division sentence for the problem. Use ☐ for the quotient.

_____ ÷ _____ = ☐

C. How many cookies did each friend receive?

_____

10. Jon scored 63 points in a word game. He scored 7 points in each round. How many rounds did Jon play? Use numbers from the box to write a number sentence and complete the statement.

_____ ÷ _____ = _____

Jon played _____ rounds.

7
8
9
63

11. Five friends shared 20 postcards equally. How many postcards did each friend get? Circle the number that makes the statement true.

Each friend got | 4 / 5 / 6 | postcards.

12. Each group of students glued seashells on boxes. The same number of seashells was used on each box. Draw a line to show how many seashells were glued on each box.

A. 20 seashells, 2 boxes	6 seashells
B. 36 seashells, 6 boxes	7 seashells
C. 40 seashells, 5 boxes	8 seashells
D. 49 seashells, 7 boxes	9 seashells
E. 72 seashells, 8 boxes	10 seashells

13. Lian sent 18 thank-you notes. Select True or False for each statement.

A. Lian sent 2 times as many thank-you notes as Gia. Gia sent 9 thank-you notes.	○ True	○ False
B. Lian sent 3 times as many thank-you notes as Ramón. Ramón sent 5 thank-you notes.	○ True	○ False
C. Lian sent 6 times as many thank-you notes as Traci. Traci sent 3 thank-you notes.	○ True	○ False
D. Lian sent 9 times as many thank-you notes as Sophia. Sophia sent 2 thank-you notes.	○ True	○ False

14. Students arranged an equal number of photos on different posters. Which group has 8 photos on each poster? Mark all that apply.

- ○ **A.** 81 photos on 9 posters
- ○ **B.** 56 photos on 7 posters
- ○ **C.** 42 photos on 6 posters
- ○ **D.** 32 photos on 4 posters
- ○ **E.** 16 photos on 2 posters

15. There are 9 students in the book club at school. That is 3 times as many students as are in the chess club. Can the number sentence be used to find how many students are in the chess club? Select Yes or No.

A. $3 \times 9 = \square$	○ Yes	○ No
B. $\square \div 3 = 9$	○ Yes	○ No
C. $3 \times \square = 9$	○ Yes	○ No
D. $9 \div 3 = \square$	○ Yes	○ No