3rd Grade American Math HW 9

Chapter 6: Understand Multiplication

Dear Family,

During the next few weeks, our math class will be learning about multiplication. We will learn how addition is related to multiplication and about the properties of multiplication. You can expect to see homework that provides practice with multiplication.

Vocabulary

- **Array:** A set of objects in rows and columns.
- **Equal groups:** Groups that have the same number of objects.
- **Factor:** A number that is multiplied by another number to find a product.
- **Multiply:** When you multiply, you combine equal groups to find how many in all.
- **Product:** The answer in a multiplication problem

- **Homework due date: Sunday, November 16th**
- **Chapter 6 Test: Thursday, November 13th (Homework packet is practice for the test)**

- **Feel free to contact me with any questions at diana.charaf@archimedean.org**

Complete homework daily based on the schedule provided below:

Monday 11/10	pages: **241, 242**
Tuesday 11/11	pages: **243, 244**
Wednesday 11/12	pages: **245, 246**
Thursday 11/13	**EYU** on IXL
Friday 11/14	**TK7** on IXL

Be thankful Together

Name _____

Chapter 6

Chapter Review

1. There are 3 boats on the lake. Each boat has 6 people in it. How many people ride in the boats? Draw circles to model the problem, and explain how to solve it.

_____ people

2. Nadia has 4 sheets of stickers. There are 8 stickers on each sheet. She wrote this equation to represent the total number of stickers.

$$4 \times 8 = 32$$

What is a related equation that also represents the total number of stickers she has?

Ⓐ $8 + 4 = \square$

Ⓑ $4 + 4 + 4 + 4 = \square$

Ⓒ $8 \times 8 = \square$

Ⓓ $8 \times 4 = \square$

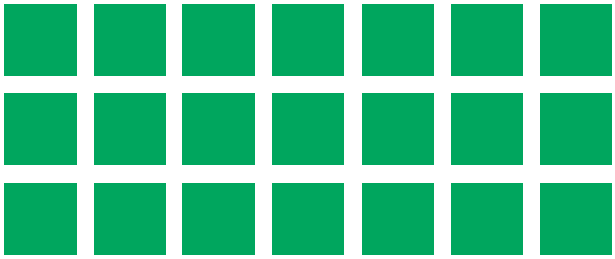
3. Lindsay went hiking for two days in Yellowstone National Park. The first jump on the number line shows how many birds she saw the first day. She saw the same number of birds the next day.

Write the multiplication equation that is shown on the number line.

_____ × _____ = _____

4. Paco drew an array to show the number of desks in his classroom.

Write a multiplication equation for the array.



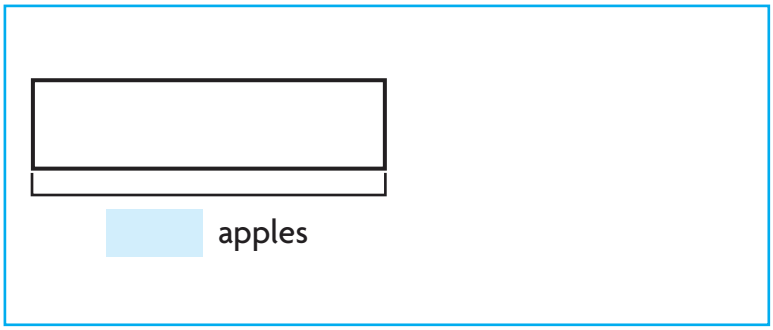
_____

5. Alondra makes 4 necklaces. She uses 5 beads on each necklace.

For Problems 5a–5d, choose Yes or No to tell if the equation could be used to find the number of beads Alondra uses.

5a.	$4 \times 5 =$ ☐	○ Yes	○ No
5b.	$4 + 4 + 4 + 4 =$ ☐	○ Yes	○ No
5c.	$5 + 5 + 5 + 5 =$ ☐	○ Yes	○ No
5d.	$5 + 4 =$ ☐	○ Yes	○ No

6. John sold 3 baskets of apples at the market. Each basket contained 9 apples. How many apples did John sell? Make a bar model to solve the problem.



ame _____

7. Select the equations that show the Commutative Property of Multiplication. Mark all that apply.

- (A) $3 \times 2 = 2 \times 3$
- (B) $4 \times 9 = 4 \times 9$
- (C) $5 \times 0 = 0$
- (D) $6 \times 1 = 1 \times 6$
- (E) $7 \times 2 = 14 \times 1$

8. A waiter carried 6 baskets with 5 dinner rolls in each basket. How many dinner rolls did he carry? Show your work.

_____ dinner rolls

9. Sonya needs 3 equal lengths of wire to make 3 bracelets. The jump on the number line shows the length of one wire in inches. How many inches of wire will Sonya need to make the 3 bracelets?

_____ inches

10. Josh has 4 dogs. Each dog gets 2 dog biscuits every day. How many biscuits will Josh need for all of his dogs for Saturday and Sunday?

_____ biscuits

11. Jorge displayed 28 cans of paint on a shelf in his store.

Select other ways Jorge could arrange the same number of cans. Mark all that apply.

- (A) 2 rows of 14
- (B) 1 row of 28
- (C) 6 rows of 5
- (D) 8 rows of 3
- (E) 7 rows of 4

12. Choose the number that makes the statement true.

The product of any number and | 0 / 1 / 10 | is zero.

13. James made this array to show that $3 \times 5 = 15$.

Part A

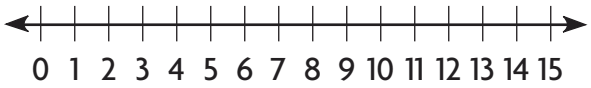
James says that $5 \times 3 = 15$. Is James correct? Draw an array to explain your answer.

Part B

Which number property supports your answer? Explain.

ame _____

14. Julio has a collection of coins. He puts the coins in 2 equal groups. There are 6 coins in each group. How many coins does Julio have? Use the number line to show your work.



_____ coins

15. Landon collects trading cards.

Part A

Yesterday, Landon sorted his trading cards into 4 groups. Each group had 7 cards. Draw a bar model to show Landon's cards. How many cards does he have?

_____ trading cards

Part B

Landon buys 3 more packs of trading cards today. Each pack has 8 cards. Write a multiplication equation to show how many cards Landon buys today. Then find how many cards Landon has now. Show your work.

_____

16. Carlos spent 5 minutes working on each of 8 math problems. He can use 8×5 to find the total amount of time he spent on the problems.

For Problems 16a–16d, choose Yes or No to show which are equal to 8×5.

16a.	$8 + 5$	○ Yes	○ No
16b.	$5 + 5 + 5 + 5 + 5$	○ Yes	○ No
16c.	$8 + 8 + 8 + 8 + 8$	○ Yes	○ No
16d.	$5 + 5 + 5 + 5 + 5 + 5 + 5 + 5$	○ Yes	○ No

17. Lucy and her mother made tacos. They put 2 tacos on each of 7 plates.

Select the equations that show all the tacos Lucy and her mother made. Mark all that apply.

(A) $2 + 2 + 2 + 2 + 2 + 2 + 2 = 14$

(B) $2 + 7 = 9$

(C) $7 + 7 = 14$

(D) $7 + 2 = 14$

(E) $2 \times 7 = 14$

18. Jayson is making 5 sock puppets. He glues 2 buttons on each puppet for its eyes. He glues 1 pompom on each puppet for its nose.

Part A

Write the total number of buttons and pompoms he uses. Write a multiplication equation for each.

Eyes

_____ buttons

_____ × _____ = _____

Noses

_____ pompoms

_____ × _____ = _____

Part B

After making 5 puppets, Jayson has 4 buttons and 3 pompoms left. What is the greatest number of puppets he can make with those items if he wants all his puppets to look the same? Draw models and use them to explain.

At most, he can make _____ more puppets.

19. For $9 \times 1 = 9$, write the *product*. Then write the *f actors*.