

3rd Grade American Math HW 16

Chapter 10: Apply Multiplication and Division

Dear Family,

During the next few weeks, our math class will be learning more about multiplication. We will learn strategies for finding multiples, determining even or odd numbers, finding unknown numbers, and solving two-step multiplication and division problems.

Vocabulary

- **Expression:** A part of an equation that has numbers and operation signs but does not have an equal sign.
- **Divisible:** A number is divisible if the number is a counting number and can be evenly divided.

Examples:

- 16 is divisible by 2.
- 18 is divisible by 3.

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- **Homework due date: Sunday, January 25th** (Upload Homework on Archie)
 - **Chapter 8 Test on Thursday, January 22nd** (Homework packet is review for the test)
 - We will be using iPads to complete the work instead of the textbook. Please ensure that students bring an **Apple Pencil** (it does not have to be the original one) so they can write on their iPads. Chapter 10 can be found in GoodNotes, in the Classwork folder inside the Math folder. This way, students can always review and go back to what we did in class if needed.
 - **Feel free to contact me with any questions at diana.charaf@archimedean.org**

Complete homework daily based on the schedule provided below:

Monday 01/20	No School
Tuesday 01/21	Pages: 371 - 372 - 373
Wednesday 01/22	Pages: 374 - 375 - 376
Thursday 01/23	No HW
Friday 01/24	No HW



Name _____

Chapter Review

1. For Problems 1a–1d, select True or False for each equation.

1a. $3 \div 1 = 1$ True False

1b. $0 \div 4 = 0$ True False

1c. $7 \div 7 = 1$ True False

1d. $6 \div 1 = 6$ True False

2. Elizabeth has 12 horses on her farm. She puts an equal number of horses in each of 3 pens. How many horses are in each pen?

Circle a number that makes the sentence true.

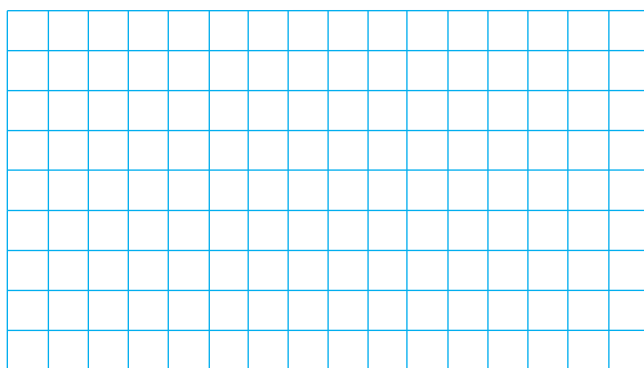
There are

4
9
36

 horses in each pen.

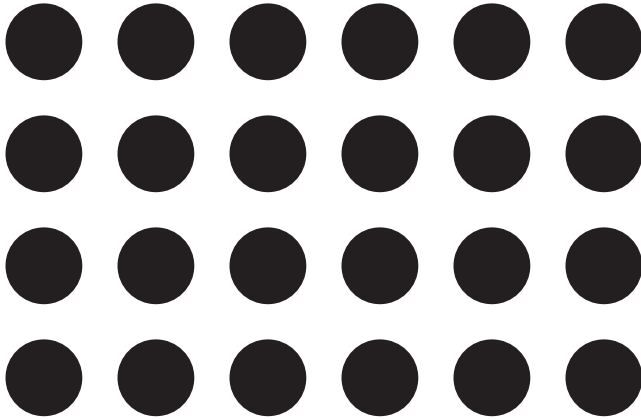
3. Kristof plants 25 pumpkins seeds in 5 equal rows. How many seeds does Kristof plant in each row?

Make an array to represent the problem. Then solve the problem.



_____ seeds

4. Beatrix spent 24 minutes walking around a track. It took her 3 minutes to walk each time around the track. How many times did Beatrix walk around the track?



Make equal groups to model the problem. Then explain how you solved the problem.

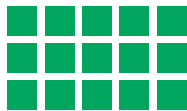
5. There are 7 cars in an amusement park ride. There are 42 people in the cars. An equal number of people ride in each car. How many people ride in one car?



42 people

_____ people

6. Select the equations that the array represents. Mark all that apply.



- | | |
|--|--|
| <input type="radio"/> A $3 \times 5 = \blacksquare$ | <input type="radio"/> D $5 \times \blacksquare = 15$ |
| <input type="radio"/> B $2 \times \blacksquare = 12$ | <input type="radio"/> E $12 \div 3 = \blacksquare$ |
| <input type="radio"/> C $\blacksquare \div 3 = 5$ | <input type="radio"/> F $15 \div 5 = \blacksquare$ |

Name _____

7. Eduardo visited his cousin for 28 days over the summer. There are 7 days in each week. How long, in weeks, was Eduardo's visit?

Part A

Draw jumps on the number line to model the problem.



Part B

Write a division equation to represent the model.

_____ weeks

8. A workbook is 64 pages long. If each chapter is 8 pages long, how many chapters are there?

_____ chapters

9. There are 56 apples packed in 7 baskets with the same number of apples in each basket. How many apples are in each basket?

For Problems 9a–9d, choose Yes or No to tell whether the equation represents the problem.

9a. $56 + 7 = \blacksquare$ Yes No

9b. $7 \times \blacksquare = 56$ Yes No

9c. $56 \div \blacksquare = 7$ Yes No

9d. $56 - \blacksquare = 7$ Yes No

10. Stefan has 24 photos to display on some posters. Select a way that he could display all of the photos in equal groups on the posters. Mark all that apply.

A 6 photos on each of 4 posters

D 5 photos on each of 5 posters

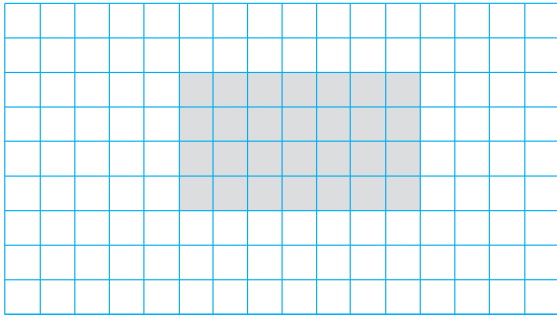
B 7 photos on each of 3 posters

E 3 photos on each of 8 posters

C 4 photos on each of 6 posters

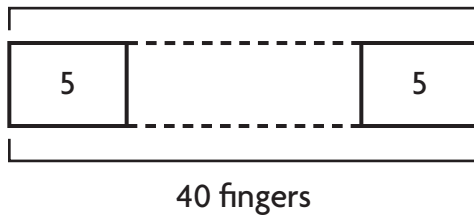
F 7 photos on each of 4 posters

11. Debbie made this array to model a division equation. Which equation could Debbie have modeled? Mark all that apply.



- (A) $14 \div 7 = 2$ (C) $28 \div 7 = 4$
 (B) $28 \div 4 = 7$ (D) $14 \div 2 = 7$

12. Mrs. Edwards knitted some gloves. Each glove had 5 fingers. She knitted a total of 40 fingers. How many gloves did Mrs. Edwards knit?



_____ gloves

13. Select a number to complete each equation.



$7 \div 7 =$ _____ $7 \div 1 =$ _____ $0 \div 7 =$ _____

14. The coach separated the 18 players at lacrosse practice into 3 equal groups. How many players were in each group?

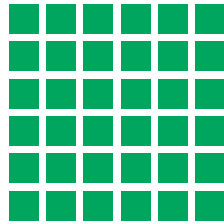
_____ players

Name _____

15. Write a division equation to represent the repeated subtraction.

$$\begin{array}{r} 32 \\ - 8 \\ \hline 24 \end{array} \quad \begin{array}{r} 24 \\ - 8 \\ \hline 16 \end{array} \quad \begin{array}{r} 16 \\ - 8 \\ \hline 8 \end{array} \quad \begin{array}{r} 8 \\ - 8 \\ \hline 0 \end{array}$$

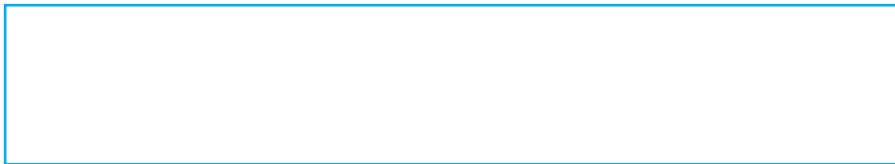
16. Write related facts for the array. Explain why there are not more related facts.



17. Darius bakes 18 muffins for his friends. He gives each of his friends an equal number of muffins and has none left over.

Part A

Draw a picture to show how many friends Darius gave muffins to.



Darius gave muffins to _____

_____ friends.

Part B

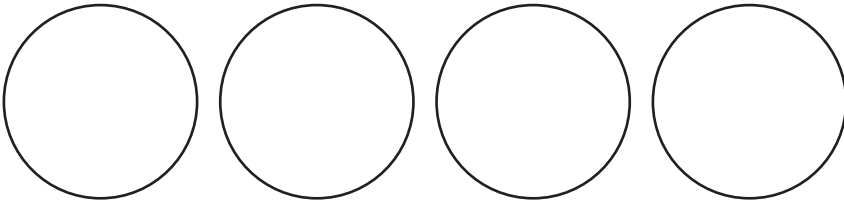
Could Darius have given 4 of his friends an equal number of muffins and have none left over? Explain why or why not.

18. Draw an array to the right showing 4 rows with 5 counters in each row. Write one multiplication equation shown by the array. Then write one division equation shown by the array.

19. Use the numbers to write related multiplication and division facts.



20. Tyrone took 16 pennies from his bank and put them in 4 equal stacks. How many pennies did Tyrone put in each stack? Show your work.



_____ pennies

21. Can you say how many zeros there are in 25? Explain why or why not by stating a fact about 0 and division.

22. Decide whether each equation is *true* or *false*.

$28 \div 7 = 2 \times 3$ true false

$4 \times 2 = 48 \div 6$ true false