

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.

Vocabulary

Array: A set of objects in row 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.

Product: The answer in a multiplication problem.

Multiply: When you multiply, you combine equal groups to find how many in all.

IMPORTANT!

- Homework due date: **Sunday, October 27th**
- Upload homework packet on **Archie**
- Feel free to contact me with any questions or concerns at **diana.charaf@archimedean.org**

Complete homework daily based on the schedule below:

Monday, Oct. 21st

N.1 on IXL

Tuesday, Oct. 22nd

N.2 on IXL

Wednesday, Oct. 23rd

N.3 on IXL

Thursday, Oct. 24th

pages: 203-204

Friday, Oct. 25th

pages: 209-210

Multiplication as repeated addition

When you have equal groups and want to find the total, you can use repeated addition or multiplication.

Imagine you are buying bananas. The bananas come in bunches of 3. You buy 5 bunches:



To find the total number of bananas, you could add five 3s using repeated addition.

$$\underbrace{3 + 3 + 3 + 3 + 3}_{\text{5 times}} = 15$$

Or, you could show this same problem using multiplication!

$$3 \times 5 = 15$$

3 times 5 means the same thing as adding 3 five times.

You can solve any multiplication problem using repeated addition. Just rewrite the problem and add.

$$4 \times 6 \rightarrow \underbrace{4 + 4 + 4 + 4 + 4 + 4}_{\text{6 times}} = 24$$

So, $4 \times 6 = 24$!

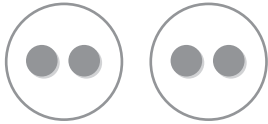
Count Equal Groups

Go Online

Interactive Examples

Draw equal groups. Skip count to find how many.

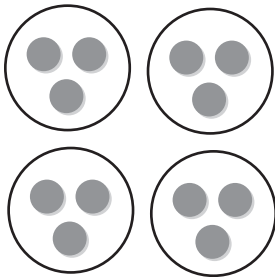
1. 2 groups of 2
- 4



2. 3 groups of 6 _____

Count equal groups to find how many.

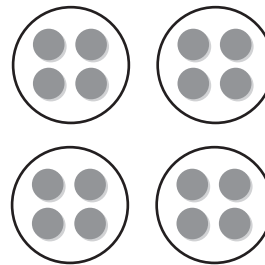
3.



_____ groups of _____

_____ in all

4.



_____ groups of _____

_____ in all

Problem Solving

5. Marcia puts 2 slices of cheese on each sandwich. She makes 4 cheese sandwiches. How many slices of cheese does Marcia use in all?
- _____
6. Tomas works in a cafeteria kitchen. He puts 3 cherry tomatoes on each of 5 salads. How many tomatoes does he use?
- _____

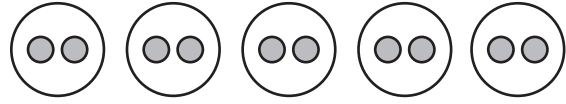
- 7.
- 
- Math*
- Write a problem that can be solved by using equal groups.

Lesson Check

8. Maya makes 3 bracelets. Each bracelet has 3 beads. How many beads does Maya use?



9. Ian has 5 cards to mail. Each card needs 2 stamps. How many stamps does Ian need?



Spiral Review

10. There were 384 people at a play on Friday night. There were 512 people at the play on Saturday night. Estimate the total number of people who attended the play on both nights.

11. Walking the Dog Pet Store has 438 leashes in stock. They sell 79 leashes during a one-day sale. How many leashes are left in stock after the sale?

12. The Lakeside Tour bus traveled 490 miles on Saturday and 225 miles on Sunday. About how many more miles did it travel on Saturday?

13. During one week at Jackson School, 210 students buy milk and 196 students buy juice. How many drinks are sold that week?

Relate Addition and Multiplication

Go Online

Interactive Examples

Draw a quick picture to show the equal groups. Then write related addition and multiplication equations.

1. 3 groups of 5

$$\underline{5} + \underline{5} + \underline{5} = \underline{15}$$

$$\underline{3} \times \underline{5} = \underline{15}$$



2. 3 groups of 4

$$\underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

3. 5 groups of 2

$$\underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

Complete. Write a multiplication equation.

- 4.
- $7 + 7 + 7 = \underline{\quad}$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

- 5.
- $3 + 3 + 3 = \underline{\quad}$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$


Problem Solving

6. There are 6 jars of pickles in a box. Ed has 3 boxes of pickles. How many jars of pickles does he have? Write a multiplication equation to find the answer.

$$\underline{\quad} \times \underline{\quad} = \underline{\quad} \text{ jars}$$

7. Each day, Jani rides her bike 5 miles. How many miles does Jani ride in 4 days? Write a multiplication equation to find the answer.

$$\underline{\quad} \times \underline{\quad} = \underline{\quad} \text{ miles}$$

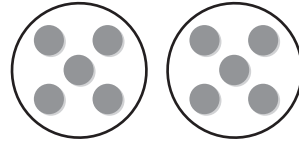
8.  **WRITE** *Math* Write a word problem that involves combining three equal groups.

Lesson Check

9. What is another way to show

$$3 + 3 + 3 + 3 + 3 + 3?$$

10. Write an addition equation and a multiplication equation for the model. How many counters are there?



Spiral Review

11. A school gave 884 pencils to students on the first day of school. What is 884 rounded to the nearest hundred?
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12. Find the difference.

$$\begin{array}{r} 632 \\ - 274 \\ \hline \end{array}$$

13. Trevor scored 42 points in the first game, 61 points in the second game and 53 points in the third game. How many fewer points did Trevor score in the first game than in the second and third games together?
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14. Darrien read 97 pages last week. Evan read 84 pages last week. How many pages did they read?
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