

Grade 3 • Unit 1 Worksheet

Introducing Multiplication

Name: _____

Date: _____

Part A • Scaled Picture Graph

Books Read This Month (Mrs. Patel's Class)

Category	Each  = 5 books
Adia	   
Ben	 
Cleo	    
Diego	  

1. Use the picture graph above to answer.

- How many books did Cleo read? _____
- How many MORE books did Adia read than Ben? _____
- How many books did everyone read in all? _____
- If the key changed so that each  = 1 book, would Cleo still have read the most? Explain.

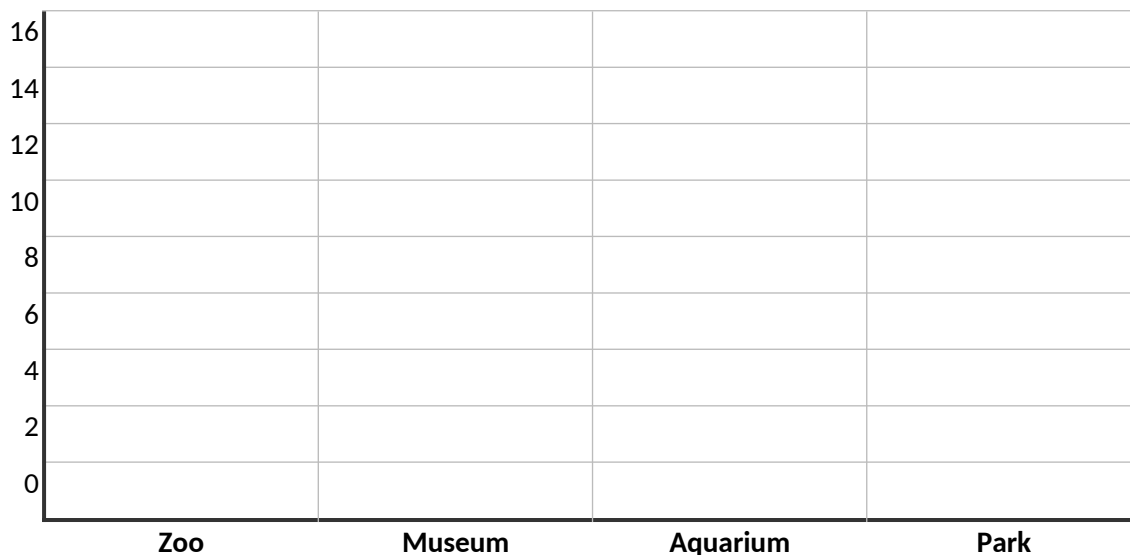
Part B • Make a Scaled Bar Graph

2. Lin's class voted on a field trip: 12 chose the zoo, 8 chose the museum, 18 chose the aquarium, 6 chose the park. Use a scale of 2 to draw a bar graph.

Why is a scale of 2 a good choice here, instead of a scale of 1?

Write a question someone could answer using your bar graph:

20				
18				



Part C • Equal Groups and Multiplication

3. Draw a picture of 4 groups of 3 stars. Then write a multiplication equation that matches your picture.

Equation: _____ $\times$ _____ = _____

What does each number in your equation represent?

4. Han wrote the equation $5 \times 2 = 10$ for the situation: "There are 5 plates with 2 apples on each plate."

What does the 5 stand for? _____

What does the 2 stand for? _____

What does the 10 stand for? _____

Part D • Arrays

5. Below is an array of dots. How many dots are there in all?

Find the total by ROWS (write a multiplication equation):

Find the total by COLUMNS (write a different multiplication equation):

What do you notice about the two equations?



6. Draw an array that shows 4×7 . Label it clearly.

Total: _____

Could you also call this array 7×4 ? Explain.

Part E • Thinking Deeply

7. Mai says: " 6×4 must be MORE than 4×6 , because 6 is bigger than 4." Is Mai correct? Explain.

8. Sam has 18 stickers. He puts them into equal groups. The equation is $18 = ? \times 3$.

What does the 3 in this equation tell you?

What does the ? tell you?

Find the value of ?: _____

9. Write a story problem that matches the equation $5 \times 6 = 30$.

10. A bar graph uses a scale of 5. One bar reaches a little past 25 but not all the way to 30. About how many does this bar represent? Could it be 27? 23? Explain.
