

# Mid-Module 1

## Review Sheet

### Grade 3



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Name: \_\_\_\_\_ Date: \_\_\_\_\_

### Mid-Module 1 Review Sheet

1) Thomas works in a cafeteria kitchen. He makes 5 salads with 3 cherry tomatoes on each salad.

Part a) How many tomatoes does he use? Show your work by drawing an array.

Part b) Thomas had to make 2 more salads. Create a new array with the total amount of salads Thomas made.

Fill in the blanks to show how he created 2 more salads.

\_\_\_\_\_threes + \_\_\_\_\_threes = \_\_\_\_\_threes

Part c) Write a multiplication sentence to describe the array representing the total number of salads that Thomas made. (Including the ones from part b).

Part d) Use the commutative property of multiplication to write a related multiplication sentence.

2) Madison has 12 rocks. She puts an equal number of rocks in each of 4 boxes.

Part a) Draw an array to represent Madison's rocks in boxes.

Part b) Write a multiplication sentence that goes with your array.

Part c) Write a related division sentence to find out how many rocks are in each box?

3) Shawn went to the fair. He went on the same ride 4 times and used the same number of tickets each time. He used 16 tickets.

Part A) Write a division sentence to find out how many tickets he used each time he went on the ride?

Part B) Draw an array to solve.

Part C) Shawn decided to go on the ride 2 more times. To figure out how many tickets he used, he did the following work:

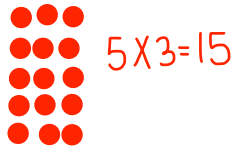
$$\begin{aligned}(4 \times 4) + (2 \times 4) &= 16 + 8 \\ &= 24\end{aligned}$$

Would Shawn get the same answer if he multiplied  $6 \times 4$ ? Explain why or why not.

## Mid-Module 1 Review ANSWER KEY

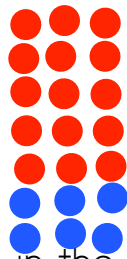
1) Thomas works in a cafeteria kitchen. He makes 5 salads with 3 cherry tomatoes on each salad.

Part a) How many tomatoes does he use? Show your work by drawing an array.



He uses 15 tomatoes.

Part b) Thomas had to make 2 more salads. Create a new array with the total amount of salads Thomas made.



Fill in the blanks to show how he created 2 more salads.

$$\underline{5} \text{ threes} + \underline{2} \text{ threes} = \underline{7} \text{ threes}$$

Part c) Write a multiplication sentence to describe the array representing the total number of salads that Thomas made. (Including the ones from part b).

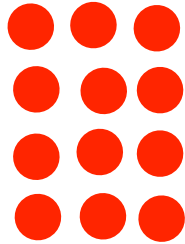
$$7 \times 3 = 21$$

Part d) Use the commutative property of multiplication to write a related multiplication sentence.

$$3 \times 7 = 21$$

2) Madison has 12 rocks. She puts an equal number of rocks in each of 4 boxes.

Part a) Draw an array to represent Madison's rocks in boxes.



Part b) Write a multiplication sentence that goes with your array.

$$4 \times 3 = 12$$

Part c) Write a related division sentence to find out how many rocks are in each box?

$$12 \div 4 = 3$$

There are 3 rocks in each box.

3) Shawn went to the fair. He went on the same ride 4 times and used the same number of tickets each time. He used 16 tickets.

Part A) Write a division sentence to find out how many tickets he used each time he went on the ride?

$$16 \div 4 = 4$$

Shawn used 4 tickets each time.

Part B) Draw an array to solve.



Part C) Shawn decided to go on the ride 2 more times. To figure out how many tickets he used, he did the following work:

$$(4 \times 4) + (2 \times 4) = 16 + 8 \\ = 24$$

Would Shawn get the same answer if he multiplied  $6 \times 4$ ? Explain why or why not.

Yes, Shawn would get the same answer.  $6 \times 4 = 24$ . If you look at Shawn's work,  $(4 \times 4) + (2 \times 4)$  is the same as  $(4 + 2) \times 4$ , which is  $6 \times 4$ . His work shows the 2 more times he went on the ride and the 4 times he went on the ride added together.



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