

Math 3

1-2 Multiplication Using Array Model

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| **Name:** |  | **Date:** |  |

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| **Common Core Standards** | [CCSS.MATH.CONTENT.3.OA.A.1](http://www.corestandards.org/Math/Content/3/OA/A/1/)Interpret products of whole numbers, e.g., interpret 5 × 7 as the total number of objects in 5 groups of 7 objects each. *For example, describe a context in which a total number of objects can be expressed as 5 × 7.*[CCSS.MATH.CONTENT.3.OA.A.3](http://www.corestandards.org/Math/Content/3/OA/A/3/)Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem. |

1-2 Multiplication Using Array Model

**Array Model**

Identify:

What do you call the red vertical lines?

Answer: Columns

What do you call the blue horizontal lines?

Answer: Rows

**Multiplication Using Array Model**

Situation:

Jimmy wants to place 5 of his toy cars in 3 rows.









Write the expression to represent the array above:

**\_ x \_**

How many toy cars does he have?

Part A: Create an expression for the following array models

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 x

Part B: Draw an array to represent the following statements. Identify the product.

1. 5 rows of 7 =

2. 3 rows of 4 =

3. 6 rows of 8 =

Part C: Odd Man Out

Cross out the item that does not fit the classification of the group in each row.

1.

**16**

**4 by 4**

**4 rows of 5**

2.

**7 x 3**

**7 rows of 3**

**22**

3.

**18**

**8 rows of 2**

**9 rows of 2**

4.

**3 x 4**

**3 by 4**

**4 x 4**

5.

**32**

**5 rows of 8**

**4 by 5**

6.

**5 x 3**

**25**

**5 by 5**

7.

**19**

**4 rows of 5**

**20**

**42**

**6 x 8**

**7 by 6**

8.

**45**

**5 rows of 9**

**8 by 5**

9.

**7 rows of 7**

**7 rows of 8**

**49**

10.

|  |  |
| --- | --- |
|  | **ANSWER KEY** |
|  | **Situation 1** | **5 x 3****15 toy cars** |
|  | **Part A:** | **1. 3 x 6****2. 5 x 8****3. 4 x 9** |
|  | **Part B:** |  |
|  | **1.** **= 35** |  |
|  | **2.****= 12** |  |
|  | **3.****= 48** |  |
|  | **Part C:** |  |
|  | **1.**  | **4 rows of 5** |
|  | **2.** | **22** |
|  | **3.** | **8 rows of 2** |
|  | **4.** | **4 x 4** |
|  | **5.**  | **5 row of 8**  |
|  | **6.** | **5 x 3** |
|  | **7.**  | **19** |
|  | **8.** | **6 x 8** |
|  | **9.**  | **8 by 5** |
|  | **10.** | **7 rows of 8** |