



Math 3

1-2 Multiplication Using Array Model

Name:

Date:

[CCSS.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 .*

Common Core Standards

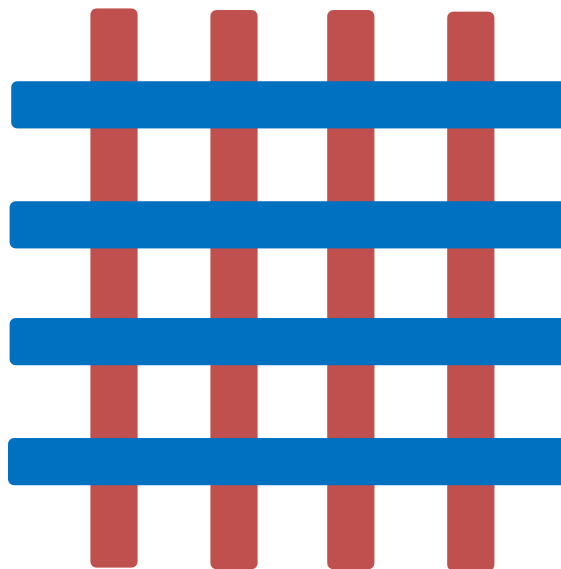
[CCSS.MATH.CONTENT.3.OA.A.3](#)

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

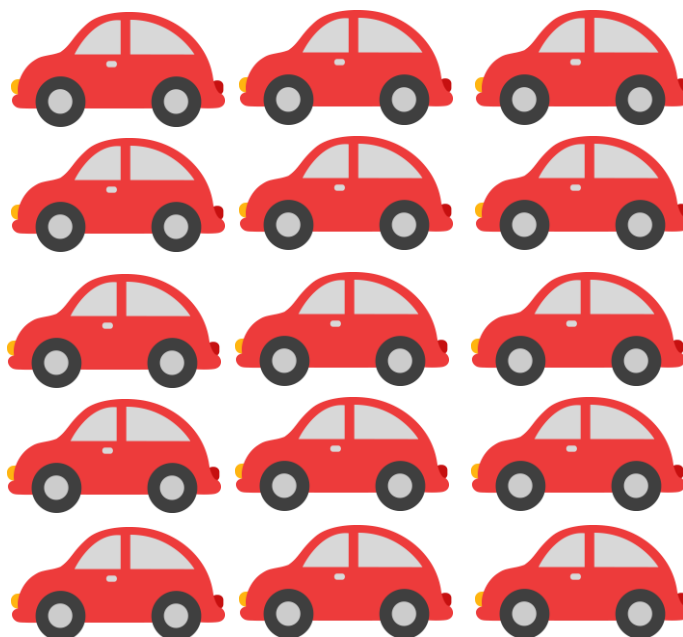
What do you call the blue horizontal lines?

Answer: Rows

Multiplication Using Array Model

Situation:

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



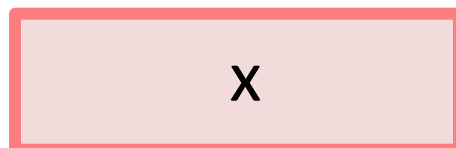
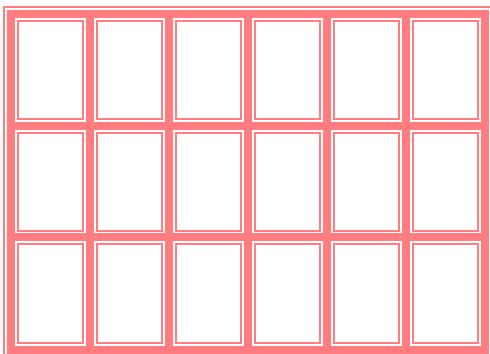
Write the expression to represent the array above:

 X

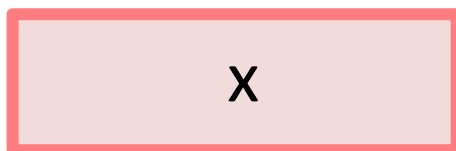
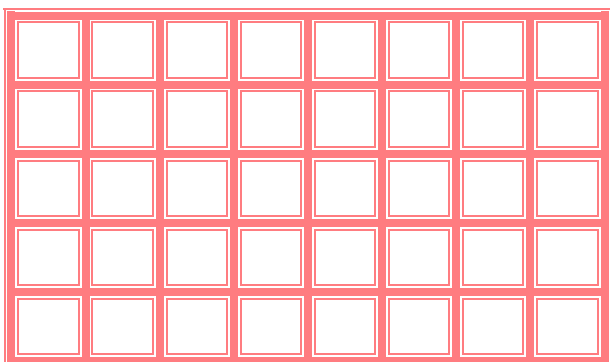
How many toy cars does he have?

Part A: Create an expression for the following array models

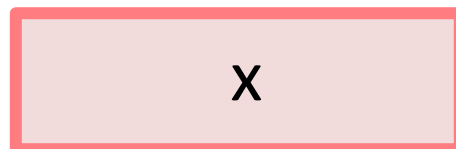
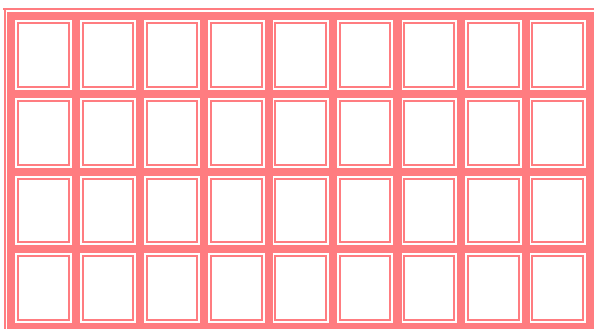
1.



2.



3.



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.

7×3

7 rows of 3

22

3.

18

8 rows of 2

9 rows of 2

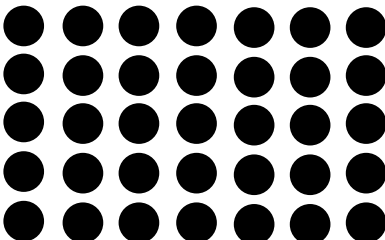
4. 3×4 3 by 4 4×4
5. 32 5 rows of 8 4 by 5
6. 5×3 25 5 by 5
7. 19 4 rows of 5 20
8. 42 6×8 7 by 6
9. 45 5 rows of 9 8 by 5
10. 7 rows of 7 7 rows of 8 49

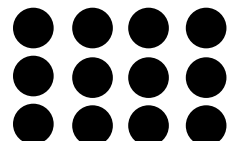
ANSWER KEY

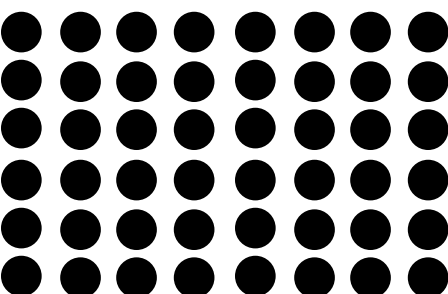
Situation 1 **5 x 3**
15 toy cars

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