MATH

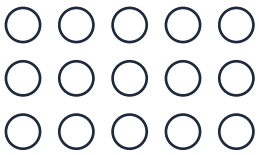
Arrays

Name _____ Date _____

I can use an array to show and solve a multiplication.

1 How it works

An array has equal rows. 3 rows of 5 dots is 3 × 5 = 15. Count the rows first, then how many are in each row. An array is easy to count because every row is the same.



3 rows of 5 = 3 × 5 = 15

2 Write the multiplication for each array

Rows first, then how many in each row.



_____ **rows of** _____

_____ × _____ = _____



_____ **rows of** _____

_____ × _____ = _____



_____ **rows of** _____

_____ × _____ = _____



_____ **rows of** _____

_____ × _____ = _____



_____ **rows of** _____

_____ × _____ = _____



_____ **rows of** _____

_____ × _____ = _____

How did I do? ☆ ☆ ☆

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Practice

Name _____ Date _____

I can draw an array and write two facts for it.

1 Draw the array

Draw a dot for each. Keep the rows straight.

2 rows of 7

= ☐

4 rows of 4

= ☐

3 rows of 6

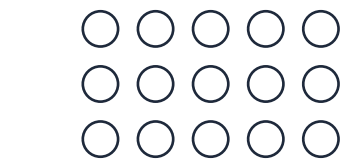
= ☐

5 rows of 3

= ☐

2 Write two facts for each array

Rows × columns, then columns × rows.



☐ × ☐ = ☐

☐ × ☐ = ☐



☐ × ☐ = ☐

☐ × ☐ = ☐



☐ × ☐ = ☐

☐ × ☐ = ☐

How did I do? ☆ ☆ ☆

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Think deeper

Name _____ Date _____

I can explain my thinking about multiplication.

1 Find every array for 24

Use grid paper or counters to check.

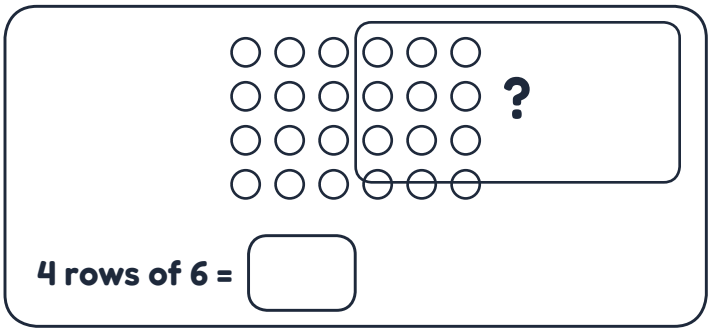
☐ × ☐ = 24 ☐ × ☐ = 24 ☐ × ☐ = 24

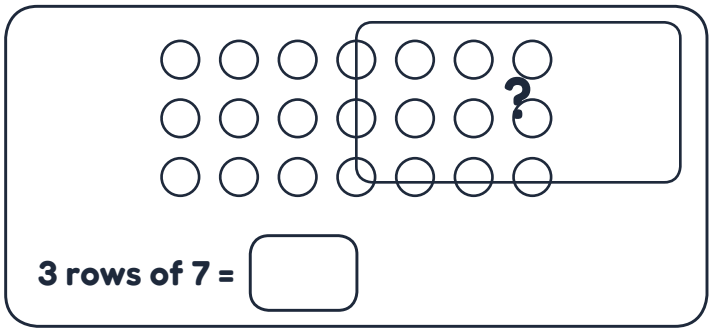
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☐ × ☐ = 24 ☐ × ☐ = 24

2 Part of the array is hidden

The card covers some dots. Find the total.





3 Think about it

1. How many arrays can you make with 7 counters?
2. An array has 5 rows of 5. How many?
3. Which is more, 3 × 6 or 4 × 5?

How did I do? ☆ ☆ ☆

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Word problems

Name _____ Date _____

I can use multiplication to solve a problem.

1 Read, draw, solve

Draw groups, an array or jumps in the box.

1 Chairs are set out in 4 rows of 6. How many chairs?

Answer: _____

2 A muffin tray has 3 rows with 4 cups in each row. How many muffins fit?

Answer: _____

3 Mia plants 20 seeds in 4 equal rows. How many seeds are in each row?

Answer: _____

4 A sheet has 2 rows of 8 stickers. Sam says that is the same as 8 rows of 2. Is Sam right?

Answer: _____

How did I do? ☆ ☆ ☆

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FOR TEACHERS AND PARENTS

Answer key: arrays

1 Page 1

Arrays: 1) 4 rows of 7: 4 × 7 = 28; 2) 5 rows of 4: 5 × 4 = 20; 3) 4 rows of 3: 4 × 3 = 12; 4) 3 rows of 3: 3 × 3 = 9; 5) 3 rows of 7: 3 × 7 = 21; 6) 4 rows of 5: 4 × 5 = 20.

2 Page 2

Draw: 1) 2 × 7 = 14; 2) 4 × 4 = 16; 3) 3 × 6 = 18; 4) 5 × 3 = 15.

Two facts: 1) 3 × 5 = 5 × 3 = 15; 2) 5 × 8 = 8 × 5 = 40; 3) 5 × 7 = 7 × 5 = 35.

3 Page 3

Arrays for 24: 1 × 24, 2 × 12, 3 × 8, 4 × 6, 6 × 4, 8 × 3, 12 × 2, 24 × 1.

Hidden: 4 × 6 = 24; 3 × 7 = 21.

Think: 1) 2: 1 × 7 and 7 × 1; 2) 25; 3) 4 × 5 (20 > 18).

4 Page 4: word problems

1) 4 × 6 = 24 chairs

2) 3 × 4 = 12 muffins

3) 5 seeds (4 × 5 = 20)

4) Yes. Both are 16 stickers.

5 Teaching tip

Look for arrays at home and school: egg cartons, muffin trays, windows and chairs. Children love finding "real" arrays and naming their facts.

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