



Doubling: 2, 4, 8



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Name: _____

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From the video $2 \times 6 = 12$, $4 \times 6 = 24$, $8 \times 6 = 48$ **1 Now it's your turn!**

What is 8 times 3?

Keep doubling: first 2×3 , then 4×3 , then 8×3 .

$2 \times 3 = \square$ $4 \times 3 = \square$

$8 \times 3 = \square$

3 The 8 times table.

$1 \times 8 = \square$

$2 \times 8 = \square$

$3 \times 8 = \square$

$4 \times 8 = \square$

$5 \times 8 = \square$

$6 \times 8 = \square$

$7 \times 8 = \square$

$8 \times 8 = \square$

$9 \times 8 = \square$

$10 \times 8 = \square$

5 Think backwards.

Which number is missing?

$\square \times 8 = 32$

$\square \times 8 = 56$

$32 \div 8 = \square$

6 Draw 5×8 as rows and calculate.

5 rows, 8 dots in every row. Shade them in.

$5 \times 8 = \square$

2 Double, double, double.

Work out 2 times, 4 times and 8 times.

$2 \times 2 = \square$

$4 \times 2 = \square$

$8 \times 2 = \square$

$2 \times 4 = \square$

$4 \times 4 = \square$

$8 \times 4 = \square$

$2 \times 7 = \square$

$4 \times 7 = \square$

$8 \times 7 = \square$

4 Swap the numbers.

$8 \times 7 = \square$

$7 \times 8 = \square$

$8 \times 4 = \square$

$4 \times 8 = \square$

4 children have 8 pencils each. How many pencils are there altogether?

$\square \times \square = \square$

★ Brain teaserTim starts with $2 \times 5 = 10$ and doubles three times. Which multiplication has he worked out at the end?



Doubling: 2, 4, 8

**1 Now it's your turn!**

$$8 \times 3 = 24$$

$$2 \times 3 = 6, 4 \times 3 = 12, 8 \times 3 = 24$$

2 Double, double, double.

$$2 \times 2 = 4, 4 \times 2 = 8, 8 \times 2 = 16$$

$$2 \times 4 = 8, 4 \times 4 = 16, 8 \times 4 = 32$$

$$2 \times 7 = 14, 4 \times 7 = 28, 8 \times 7 = 56$$

3 The 8 times table.

$$1 \times 8 = 8 \quad 2 \times 8 = 16$$

$$3 \times 8 = 24 \quad 4 \times 8 = 32$$

$$5 \times 8 = 40 \quad 6 \times 8 = 48$$

$$7 \times 8 = 56 \quad 8 \times 8 = 64$$

$$9 \times 8 = 72 \quad 10 \times 8 = 80$$

4 Swap the numbers.

$$8 \times 7 = 56 \text{ and } 7 \times 8 = 56$$

$$8 \times 4 = 32 \text{ and } 4 \times 8 = 32$$

$$4 \times 8 = 32$$

5 Think backwards.

$$4 \times 8 = 32$$

$$7 \times 8 = 56$$

$$32 \div 8 = 4$$

★ Brain teaser

$$4 \times 5 = 20, 8 \times 5 = 40, 16 \times 5 = 80.$$

6 Draw the problem.

$$5 \times 8 = 40$$

For parents and teachers: This worksheet goes with the video “Doubling: 2, 4, 8” (Math Story 99, Grade 3). Doubling: 4 times is double 2 times, and 8 times is double 4 times. That is how the 8 times table grows out of the 2 times table.

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