Doubling: 2, 4, 8

MathApex

Name: _____ Date: _____

Watch video

From the video 2 × 6 = 12, 4 × 6 = 24, **8 × 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 × 3 = ☐ 4 × 3 = ☐

8 × 3 = ☐

2 Double, double, double.

Work out 2 times, 4 times and 8 times.

2 × 2 = ☐	4 × 2 = ☐	8 × 2 = ☐
2 × 4 = ☐	4 × 4 = ☐	8 × 4 = ☐
2 × 7 = ☐	4 × 7 = ☐	8 × 7 = ☐

3 The 8 times table.

1 × 8 = ☐	2 × 8 = ☐
3 × 8 = ☐	4 × 8 = ☐
5 × 8 = ☐	6 × 8 = ☐
7 × 8 = ☐	8 × 8 = ☐
9 × 8 = ☐	10 × 8 = ☐

4 Swap the numbers.

8 × 7 = ☐	7 × 8 = ☐
8 × 4 = ☐	4 × 8 = ☐

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

☐ × ☐ = ☐

5 Think backwards.

Which number is missing?

☐ × 8 = 32

☐ × 8 = 56

32 ÷ 8 = ☐

Brain teaser

Tim starts with 2 × 5 = 10 and doubles three times. Which multiplication has he worked out at the end?

_____

_____

6 Draw 5 × 8 as rows and calculate.

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

5 × 8 = ☐

MathApex

MATH STORY 99 · ANSWERS

Doubling: 2, 4, 8

Watch video

1 Now it's your turn!

8 × 3 = 24

2 × 3 = 6, 4 × 3 = 12, 8 × 3 = 24

2 Double, double, double.

2 × 2 = 4, 4 × 2 = 8, 8 × 2 = 16
2 × 4 = 8, 4 × 4 = 16, 8 × 4 = 32
2 × 7 = 14, 4 × 7 = 28, 8 × 7 = 56

3 The 8 times table.

1 × 8 = 8	2 × 8 = 16
3 × 8 = 24	4 × 8 = 32
5 × 8 = 40	6 × 8 = 48
7 × 8 = 56	8 × 8 = 64
9 × 8 = 72	10 × 8 = 80

4 Swap the numbers.

8 × 7 = 56 and 7 × 8 = 56
8 × 4 = 32 and 4 × 8 = 32
4 × 8 = 32

5 Think backwards.

4 × 8 = 32
7 × 8 = 56
32 ÷ 8 = 4

★ Brain teaser

4 × 5 = 20, 8 × 5 = 40, **16 × 5 = 80**.

6 Draw the problem.

5 × 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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