Multiplying Bigger Numbers

MathApex

Name: _____ Date: _____

Watch video

From the video 15 crates with 12 bottles each → 15 × 10 = 150, 15 × 2 = 30 → **180**

1 Now it's your turn!

24 crates with 12 bottles each: how many bottles?

Split: 24 × 10 and 24 × 2.

24 × 12 = ☐ bottles

2 Divide in steps.

Split the number cleverly.

156 ÷ 6 = ☐

216 ÷ 9 = ☐

184 ÷ 4 = ☐

3 With remainders.

a) **29 ÷ 4 =** ☐ **remainder** ☐ → tables: ☐

b) **45 ÷ 7 =** ☐ **remainder** ☐ → crates: ☐

c) **50 ÷ 6 =** ☐ **remainder** ☐ → boats: ☐

4 Multiplying big numbers.

Split into tens and ones.

23 × 14 = ☐

18 × 15 = ☐

31 × 12 = ☐

5 Think backwards.

Check with the inverse operation: 8 × 1 = ? Write the checks for task 2.

Brain teaser

125 candies are packed into bags of 4 candies each. How many full bags is that, and how many candies are left over? How many candies are missing for 20 bags?

6 Written calculation.

Left: 156 ÷ 6. Right: 23 × 14. Line up the digits in columns.

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MATH STORY 80 · ANSWERS

Multiplying Bigger Numbers

Watch video

1 Now it's your turn!

24 × 12 = 288

24 × 10 = 240 and 24 × 2 = 48.

2 Divide in steps.

156 ÷ 6 = 26 216 ÷ 9 = 24 184 ÷ 4 = 46

3 With remainders.

29 ÷ 4 = 7 remainder 1 → 8 tables
45 ÷ 7 = 6 remainder 3 → 7 crates
50 ÷ 6 = 8 remainder 2 → 9 boats

4 Multiplying big numbers.

23 × 14 = 322 18 × 15 = 270 31 × 12 = 372

5 Think backwards.

26 × 6 = 156 24 × 9 = 216 46 × 4 = 184

★ Brain teaser

125 ÷ 4 = 31 remainder 1; for 20 bags you need 80, so nothing is missing – you have 45 more than you need.

6 In writing.

156 ÷ 6 = 26 23 × 14 = 322

For parents and teachers: This worksheet goes with the video "Multiplying Bigger Numbers" (Math Story 80, Grade 4). Mental calculation with steps: split numbers cleverly. In word problems with a remainder, the question decides whether to round up.

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