

Double & Half - Try It Sheet

Name: _____ Date: _____

The idea

Halve one factor and double the other. The product stays the same because the factor of 2 moves.

$$48 \times 25 = 24 \times 50 = 12 \times 100 = 1200$$

divide by 2 multiply by 2 repeat once

$(2 \times 24) \times 25 = 24 \times (2 \times 25)$, so the amount does not change.

Try it

Write one friendlier equation, then solve.

1. $36 \times 25 =$

Friendlier equation:

Answer: _____

2. $64 \times 25 =$

Friendlier equation:

Answer: _____

3. $28 \times 50 =$

Friendlier equation:

Answer: _____

4. $52 \times 25 =$

Friendlier equation:

Answer: _____

5. $46 \times 50 =$

Friendlier equation:

Answer: _____

6. $72 \times 25 =$

Friendlier equation:

Answer: _____

Check: Did you halve an even factor and double the other factor?

Answers & Parent Tips

Use the explanation, not speed, as the goal.

Answers

1. $36 \times 25 = 18 \times 50 = 9 \times 100 = 900$
 2. $64 \times 25 = 32 \times 50 = 16 \times 100 = 1600$
 3. $28 \times 50 = 14 \times 100 = 1400$
 4. $52 \times 25 = 26 \times 50 = 13 \times 100 = 1300$
 5. $46 \times 50 = 23 \times 100 = 2300$
 6. $72 \times 25 = 36 \times 50 = 18 \times 100 = 1800$
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Parent prompts

- Ask: Which factor is even? What happens if you halve it?
- Ask: Where did the factor of 2 go? Listen for: it moved to the other factor.
- If the answer is off by a zero, compare it with an estimate before correcting it.
- Let the learner write a different but equivalent path when the product stays equal.

One-sentence explanation

I can halve one factor and double the other because _____.
