MATHEMATICS · KINDERGARTEN TO GRADE 3

One-digit multiplication

Difficulty level: Easy

Mathematics: Kindergarten to Grade 3

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Overview of the concept

This is how you work out the cost of several identical things, like 6 packs of juice boxes or 4 tickets at the same price. A shopper multiplies the price of one pack by the number of packs, and a teacher works out how many chairs are needed when each table seats the same number. It is the quick version of adding the same number over and over, and it shows up every time you buy in bulk or count things in equal groups. Once the small facts are automatic, the everyday maths takes seconds instead of minutes.



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Rule

Multiplication distributes over addition: a number times a sum equals the sum of the products.

To multiply a two-digit number by a one-digit number, split the two-digit number into tens and ones, multiply each part by the one-digit number, then add the two products.

Worked examples

EXAMPLE 1

Q $23 \times 4 = ?$

SOLUTION

$23 \times 4 = (20 \times 4) + (3 \times 4) = 80 + 12 = 92$

Split 23 into $20 + 3$.

$20 \times 4 = 80$ and $3 \times 4 = 12$

Add them: $80 + 12 = 92$

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EXAMPLE 2

Q 15 × 6 = ?

SOLUTION

15 × 6=(10 × 6) + (5 × 6)=60 + 30 = 90

Split 15 into 10 + 5.

10 × 6 = 60 and 5 × 6 = 30

Add them: 60 + 30 = 90

Practice questions

1 A tray holds 12 rows of 3 muffins. Split 12 into 10 + 2. 10 × 3 = 30 and 2 × 3 = 6. Add them: 30 + 6. What is the answer?

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2 What is 7 × 8?

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3 $6 \times ? = 42$. What is the missing number?

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4 How many 5s are added in $5 + 5 + 5 + 5$?

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5 Which is equal to 3×9?

A 9×3

B $9 + 3$

C $9 - 3$

D $9 \div 3$

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6 What is 47 × 1?

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7 Estimate 29 × 3 by rounding 29 to 30. What is the estimate?

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8 8 bags hold 6 marbles each. How many marbles are there?

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9 Which is greater: 7 × 6 or 8 × 5?

- **A** 7 × 6
- **B** 8 × 5
- **C** They are equal
- **D** Cannot tell

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10 How many 3s are in 27?

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ANSWER KEY

1. 36

2. 56

3. 7

4. 4

5. 9 × 3

6. 47

7. 90

8. 48

9. 7 × 6

10. 9

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