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Math

Multiplication, division, time, data and big numbers

Main Summary

Free Sample

Primary 3



- Rules of Multiplication
- Time and Duration
- Division
- Addition and Subtraction
- Length
- Organizing Data
- Mental Math
- Division with Remainders
- Numbers Bigger than 10,000
- Vertical Multiplication (Part 1)

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Unit 1

Rules of Multiplication

- Welcome, math champion!
- We learn the rules of multiplication.
- We multiply by 10 and by 0.
- We find missing numbers using the times tables.



1 Properties of Multiplication
2 Multiplying by 10 and 0
3 Find the Missing Numbers

Unit 1 · Lesson 1

Properties of Multiplication

Book: p. 5–7

Contents

Today's goal

Use the rules of multiplication to find products.

Rules of multiplication

$2 \times 5 = 2 \times 4 + 2$

$4 \times 8 = 8 \times 4$

$7 \times 9 = 4 \times 9 + 3 \times 9$

Lesson ideas

1. When the **multiplier** increases by 1, the product increases by the **multiplicand**: 2×5 is 2 more than 2×4.
2. When the multiplier decreases by 1, the product decreases by the multiplicand: $9 \times 7 = 9 \times 8 - 9$.
3. We can **switch the order** of the numbers and the answer stays the same: $4 \times 8 = 8 \times 4$.
4. We can **break up** a multiplication into two parts and add: $7 \times 9 = 4 \times 9 + 3 \times 9 = 36 + 27 = 63$. There are many ways to break up a number, like $8 \times 5 = 6 \times 5 + 2 \times 5$.

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Properties of Multiplication

Book: p. 5–7

Contents

New words

Multiplicand The first number in a multiplication (the number in each group).

Multiplier The second number (how many groups).

Product The answer of a multiplication.

Break up Split a number into two parts to make multiplying easier.

Remember

Multiplier +1 → product + multiplicand. Switching the order gives the same answer.

In my life

If I know 6 × 8 = 48, then 6 × 9 is just 6 more: 54 stickers.

Family activity

Ask your family a times-table question, then find the next fact by adding the multiplicand.

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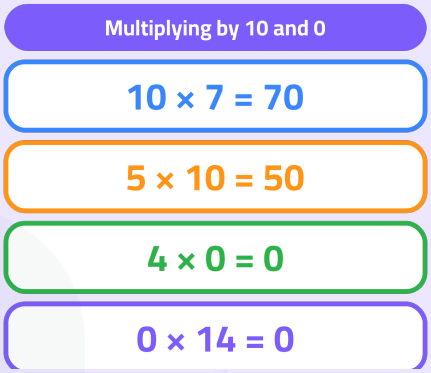
Unit 1 · Lesson 2

Multiplying by 10 and 0

Book: p. 8–11

Today's goal

Multiply by 10 and by 0, and find a total score.



Lesson ideas

1. The **10 times table**: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100.
2. We can switch the order: 5 × 10 = 10 × 5 = 50.
3. **Any number multiplied by 0 is 0**: 4 × 0 = 0 and 0 × 14 = 0.
4. Word problem: 8 people get 10 candies each: 10 × 8 = 80, answer: 80 candies.
5. In a ball game, **score = points × count**; then we add all the scores to find the total.
6. Example: 3 × 0 + 2 × 1 + 1 × 3 + 0 × 6 = 0 + 2 + 3 + 0 = 5 points.

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Multiplying by 10 and 0

Book: p. 8–11

Contents

New words

Times table A list of the products of a number.

Score The points you get in a game.

Total The answer when we add everything.

Unit The word with the number, like candies or points.

Remember

× 10: the 10 times table. × 0: always 0. Always write the unit!

In my life

A box has 10 pencils. If I buy 4 boxes, I have 10 × 4 = 40 pencils.

Family activity

Play a throwing game at home with 3, 2, 1 and 0-point areas and calculate your total score.

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Find the Missing Numbers

Book: p. 12–13

Contents

Today's goal

Find a missing number in a multiplication sentence.

Find the missing number

8 × ? = 40

8 × 5 = 40

? × 4 = 16 → 4 × 4 = 16

Lesson ideas

1. If the **multiplier** is missing, look in the times table of the first number: 8 × ? = 40 → 8 × 5 = 40.
2. If the **multiplicand** is missing, switch the order first: ? × 4 = 16 → 4 × ? = 16 → 4.
3. Then search the times table for the product.
4. If the product is 0, the missing number is 0: 2 × ? = 0 → 0.

Find the Missing Numbers

Book: p. 12–13

Contents

New words

Missing number The number we need to find.

Switch the order Change the places of the two numbers.

Remember

Look in the times table of the number you know!

In my life

If 6 friends share 36 sweets equally, I think: 6 × ? = 36, so each gets 6.

Family activity

Make missing-number cards with your family and solve them.

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