

## Year 4

## Multiplying and Dividing Decimals by 10 and 100

## Quick Revision Reminder

- **When multiplying** ( $\times$ ), numbers get bigger! Move digits **left** on a place value grid.
- **When dividing** ( $\div$ ), numbers get smaller! Move digits **right** on a place value grid.
- **10** = move **1** place | **100** = move **2** places.

## Part 1: Arithmetic Warm-up

Complete the calculations below.

1.  $3.5 \times 10 = \underline{\quad}$
2.  $6.2 \times 100 = \underline{\quad}$
3.  $41.0 \div 10 = \underline{\quad}$
4.  $58 \div 100 = \underline{\quad}$
5.  $0.74 \times 100 = \underline{\quad}$

## Part 2: SATs-Style Missing Number Questions

Fill in the missing numbers or symbols to make the math balance correctly.

6. Write the missing number.

$$0.9 \times \underline{\hspace{2cm}} = 90$$

7. Write the missing symbol ( $\times$  or  $\div$ ) in the box.

$$7.3 \quad \square \quad 10 = 0.73$$

8. Write the missing number.

$$\underline{\hspace{2cm}} \div 100 = 0.14$$

9. Write the missing number.

$$4.2 \times 10 = 420 \div \underline{\hspace{2cm}}$$

## Part 3: Balance and Comparison (SATs-Style)

10. Write true or false for each of the following:

$$8.5 \times 10 = 850 \div 10 \quad \text{true/false}$$

$$0.23 \times 100 = 2.3 \times 10 \quad \text{true/false}$$

$$6.0 \div 10 = 60 \div 100 \quad \text{true/false}$$

**Year 4****Multiplying and Dividing Decimals by 10 and 100****Part 4: Word Problems & Reasoning**

Show your working out for these questions.

11. A pack of 10 identical school pencils costs £4.50 altogether. How much does one pencil cost? Give your answer as a decimal in pounds (£).

Working out space:

Answer: £\_\_

12. A miniature toy brick is 0.85 cm tall. If you stack 100 of these bricks directly on top of each other, how tall will the tower be?

Working out space:

Answer: \_\_ cm

13. Circle the mistake. Ben is looking at patterns in math. He writes:

$$0.3 \times 10 = 3$$

$$0.03 \times 100 = 3$$

$$3.3 \div 10 = 3.30$$

Explain why Ben's final calculation is incorrect. What should the correct answer be?

Explanation:

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