

Y5 Multiply Divide 10 100 1000

KS2 Y5 Maths · Follows the national curriculum

Name _____ Class _____ Date _____

1. Worked example

45×100

Step 1 · $\times 100$ moves every digit two places to the left

4 tens $\rightarrow$ 4 thousands, 5 ones $\rightarrow$ 5 hundreds

Step 2 · Fill the empty tens and ones with 0

4,500

Answer: 4,500

Check: $45 \times 10 = 450$, and $450 \times 10 = 4,500$ ✓

2. Now try one with the steps

3.7×10

Step 1 · Each digit moves one place to the left

Answer:

3. Practice

Have a go at each one. There is space underneath to work it out.

1. 63×10

2. $63 \times 1,000$

3. $4,200 \div 100$

4. 5.6×10

5. $8 \div 10$

6. 2.47×100

7. $39 \div 100$

8. $0.6 \times 1,000$

9. $715 \div 1,000$

10. Fill the gap: $3.08 \times \underline{\quad} = 308$

11. Fill the gap: $\underline{\quad} \div 10 = 0.04$

12. One book weighs 0.45 kg. How much do 100 of the same book weigh?

13. A box of 1,000 paper clips weighs 650 g. How much does one paper clip weigh?

14. Jamal says $2.5 \times 10 = 2.50$. Explain the mistake and give the right answer.

4. Before you hand it in

Saying $2.5 \times 10 = 2.50$.

Adding a zero after the decimal point changes nothing. The digits move one place left: $2.5 \times 10 = 25$.

Saying $39 \div 100 = 3.9$.

$\div 100$ moves the digits two places right. 3 tens become 3 tenths: 0.39.

Writing $715 \div 1,000$ as .715 or 0.0715.

Write it in a place value chart. 7 hundreds $\rightarrow$ 7 tenths, so 0.715. Put a 0 in the ones column.

Thinking the decimal point moves.

The decimal point stays still and the digits move, because each digit becomes 10, 100 or 1,000 times bigger or smaller.