Y6 Decimals Three Places

KS2 Y6 Maths · Follows the national curriculum

Name _____ Class _____ Date _____

1. Worked example

What is each digit in 7.264 worth?

Step 1 · 7 is in the ones column

7

Step 2 · 2 is in the tenths column

0.2

Step 3 · 6 is in the hundredths column

0.06

Step 4 · 4 is in the thousandths column

0.004

Answer: 7 + 0.2 + 0.06 + 0.004

Check: 7.264 = 7 and 264 thousandths ✓

2. Now try one with the steps

3.45 × 100

Step 1 · × 100 moves every digit 2 places to the left

Step 2 · Read the new number

Answer:

3. Practice

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

1. What is the value of the 3 in 4.638?

2. What is the value of the 9 in 12.509?

3. Write number: 5 + 0.4 + 0.07 + 0.002

4. 2.35 × 10

5. 0.48 × 100

6. 3.072 × 1,000

7. 56 ÷ 100

8. 4.7 ÷ 10

9. 813 ÷ 1,000

10. 9.2 ÷ 100

11. ? × 100 = 607

12. 0.035 × ? = 35

13. Order from smallest to largest: 1.205, 1.25, 1.025

14. 0.364 = 0.3 + ? + 0.004

15. A 1 kg bag of rice is shared equally into 100 portions. How many kilograms is each portion?

4. Before you hand it in

3.45 × 100 = 3.4500.
Multiplying by 100 makes every digit 100 times bigger, so each moves 2 places left: 345.

5.8 ÷ 100 = 0.58.
÷ 100 moves digits 2 places. 5 ones → 5 hundredths: 0.058.

Thinking 1.25 is smaller than 1.205 because 25 < 205.
Compare place by place: both have 2 tenths, then 5 hundredths beats 0 hundredths, so 1.25 > 1.205.