

Y6 Multiply Decimals

KS2 Y6 Maths · Follows the national curriculum

Name _____ Class _____ Date _____

1. Worked example

0.7×6

Step 1 · 0.7 is 7 tenths

$7 \text{ tenths} \times 6$

Step 2 · 7×6

42 tenths

Step 3 · 42 tenths

4.2

Answer: 4.2

Check: 0.7 is a bit less than 1, and 4.2 is a bit less than 6 ✓

2. Now try one with the steps

2.4×3

Step 1 · 2.4×10

Step 2 · 24×3

Step 3 · $72 \div 10$

Answer:

3. Practice

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

1. 0.3×4

2. 0.6×7

3. 0.9×8

4. 1.5×4

5. 2.7×3

6. 0.05×6

7. 0.12×4

8. 4.8×5

9. 3.26×7

10. 6.04×9

11. A pencil costs £0.35. How much do 8 pencils cost?

12. A bottle holds 1.75 litres. How much do 6 bottles hold?

13. Seven pieces of rope are each 2.4 m long. What is their total length?

14. $37 \times 8 = 296$. Use this to find 3.7×8 and 0.37×8 .

15. $? \times 6 = 4.8$. What is the missing number?

4. Before you hand it in

$0.7 \times 6 = 0.42$.

7 tenths $\times 6 = 42$ tenths, which is 4.2. Estimate: 0.7×6 is nearly 6.

$2.4 \times 3 = 6.12$.

4 tenths $\times 3 = 12$ tenths = 1.2, which must be added: $6 + 1.2 = 7.2$.

$0.05 \times 6 = 0.030$ or 3.

5 hundredths $\times 6 = 30$ hundredths = 0.30 = 0.3.