Multiplying and dividing decimals

Free Extra Maths Class · Grade 7

Name: _____

Remember: Multiply without the comma, then count the places after the comma in the question. When you divide by a whole number, the comma in the answer sits straight above the comma in the sum.
Why? Tenths × tenths gives hundredths – that is why the answer gets as many places as the question.

1. Calculate: 0,7 × 6

2. Calculate: 3,45 × 100

3. Calculate: 52,8 ÷ 100

4. Calculate: 8,06 × 1 000

5. Calculate: 0,6 × 0,9

6. Calculate: 1,2 × 0,3

7. Calculate: 4,36 × 7

8. Calculate: 2,4 × 3,5

9. Calculate: 9,75 ÷ 3

10. Calculate: 22,4 ÷ 8

11. Apples cost R16,80 per kg. Thandi buys 1,5 kg. How much does she pay?

12. Uncle Japie saws a 3,6 m plank into 4 equal pieces. How long is each piece?

13. You know: 37 × 24 = 888. Use it to write the answers to: **a)** 3,7 × 0,24 **b)** 37 × 2,4 **c)** 0,37 × 0,24

14. Calculate: 7,2 ÷ 0,8

15. A jug holds 2,4 ℓ of juice. How many 0,3 ℓ glasses can you fill with it?

I got _____ **out of 15** ☆ ☆ ☆

Memorandum

Multiplying and dividing decimals

Other correct methods are also right.

1. **4,2**
   7 tenths × 6 = 42 tenths = 4,2

2. **345**
   × 100: every digit moves 2 places to the left.

3. **0,528**
   ÷ 100: every digit moves 2 places to the right.

4. **8 060**
   × 1 000: every digit moves 3 places to the left.

5. **0,54**
   6 × 9 = 54; 2 places after the comma → **0,54**

6. **0,36**
   12 × 3 = 36; 2 places after the comma → **0,36**

7. **30,52**
   436 × 7 = 3 052; 2 places after the comma → **30,52**

8. **8,4**
   24 × 35 = 840; 2 places after the comma → **8,40 = 8,4**

9. **3,25**
   975 hundredths ÷ 3 = 325 hundredths = **3,25**

10. **2,8**
    224 tenths ÷ 8 = 28 tenths = **2,8**

11. **R25,20**
    168 × 15 = 2 520; 2 places after the comma → 25,20; R16,80 × 1,5 = **R25,20**

12. **0,9 m**
    36 tenths ÷ 4 = 9 tenths; 3,6 ÷ 4 = **0,9 m**

13. **a) 0,888 b) 88,8 c) 0,0888**
    Count the places after the comma: a) 1 + 2 = 3 places; b) 0 + 1 = 1 place; c) 2 + 2 = 4 places.

14. **9**
    Multiply both by 10: 72 ÷ 8 = **9**

15. **8 glasses**
    2,4 ÷ 0,3; multiply both by 10: 24 ÷ 3 = **8**