

GCSE Maths: Multiplying decimals (Foundation): answers

GCSE Maths - Decimals, Rounding and Estimation - Foundation - Lesson 4.3

Answers. Final answers to the worksheet questions. Full step-by-step solutions for every question are free at websink.site/gcse/maths/ch04-decimals-rounding-estimation/foundation/multiplying-decimals/

Exercise 4C Multiplying decimals

Non-calculator

1 Work out

(a) 0.4×0.2

Answer: 0.08

(b) 0.5×0.3

Answer: 0.15

(c) 0.6×7

Answer: 4.2

(d) 1.2×3

Answer: 3.6

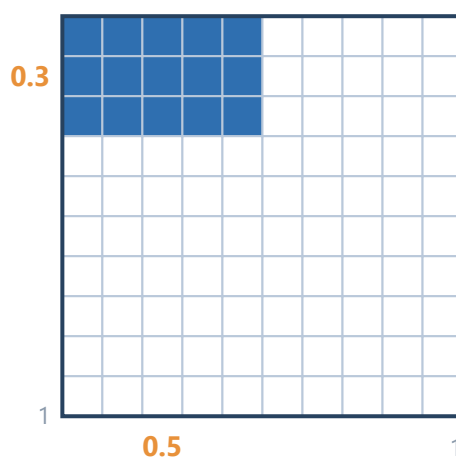
(e) 0.07×0.9

Answer: 0.063

(f) 2.5×0.4

Answer: 1

- 2 The diagram shows a square of side 1 split into 100 equal small squares. The shaded rectangle is 0.3 high and 0.5 wide. How many small squares are shaded, and what is 0.3×0.5 ?



Answer: 15 squares; 0.15

3 Work out

(a) 3.4×5

Answer: 17

(b) 2.15×4

Answer: 8.6

(c) 6.3×0.8

Answer: 5.04

(d) 0.25×12

Answer: 3

(e) 1.8×1.5

Answer: 2.7

(f) 0.45×0.06

Answer: 0.027

4 Work out

(a) 2.4×1.3

Answer: 3.12

(b) 0.36×0.15

Answer: 0.054

(c) 1.07×0.35

Answer: 0.3745

(d) 5.2×0.07

Answer: 0.364

(e) 3.14×2.5

Answer: 7.85

(f) 0.9×0.004

Answer: 0.0036

5 Use the fact that $36 \times 47 = 1692$ to work out

(a) 3.6×47

Answer: 169.2

(b) 0.36×4.7

Answer: 1.692

(c) 360×0.47

Answer: 169.2

(d) 0.036×0.47

Answer: 0.01692

6 Maria buys 8 books that each cost £6.75. Work out the total cost.

Answer: £54.00

- 7** Gran buys 12 packs of rice. Each pack has a mass of 0.45 kg. Work out the total mass of rice.

Answer: 5.4 kg

- 8** A rectangle has length 6.5 cm and width 3.2 cm. Work out its area.



Answer: 20.8 cm²

- 9** A fence is made from 15 planks laid end to end. Each plank is 2.4 m long. How long is the fence?

Answer: 36 m

- 10** Tick the correct statement and give a reason: "Multiplying a number by 0.5 always makes it bigger." True or false?

Answer: False

- 11** Sam says: " $0.2 \times 0.3 = 0.6$ because $2 \times 3 = 6$." Explain what is wrong and give the correct answer.

Answer: 0.06

- 12** Without working it out, is 0.7×0.8 bigger than 0.7 or smaller than 0.7? Give a reason, then work out 0.7×0.8 .

Answer: Smaller; 0.56

- 13** Find the missing digit: $3.\square \times 0.4 = 1.36$

Answer: 3.4