

GCSE Maths: Dividing decimals (Higher): answers

GCSE Maths - Decimals, Rounding and Estimation - Higher - Lesson 4.4

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/higher/dividing-decimals/

Exercise 4D Dividing decimals Non-calculator

1 Work out

(a) $0.8 \div 2$

Answer: 0.4

(b) $6.9 \div 3$

Answer: 2.3

(c) $0.45 \div 5$

Answer: 0.09

(d) $12.6 \div 6$

Answer: 2.1

(e) $4.8 \div 8$

Answer: 0.6

(f) $9.1 \div 7$

Answer: 1.3

2 Work out

(a) $5.6 \div 4$

Answer: 1.4

(b) $9.45 \div 3$

Answer: 3.15

(c) $0.72 \div 9$

Answer: 0.08

(d) $13.5 \div 5$

Answer: 2.7

(e) $1.2 \div 8$

Answer: 0.15

(f) $2.07 \div 9$

Answer: 0.23

3 Work out

(a) $6 \div 0.3$

Answer: 20

(b) $2.4 \div 0.6$

Answer: 4

(c) $0.84 \div 0.07$

Answer: 12

(d) $1.5 \div 0.05$

Answer: 30

(e) $9 \div 0.15$

Answer: 60

(f) $4.2 \div 0.35$

Answer: 12

4 Use the fact that $96 \div 8 = 12$ to work out

(a) $9.6 \div 8$

Answer: 1.2

(b) $0.96 \div 8$

Answer: 0.12

(c) $960 \div 0.8$

Answer: 1200

(d) $0.96 \div 0.08$

Answer: 12

5 Three friends share a taxi fare of £18.60 equally. How much does each friend pay?

Answer: £6.20

6 A roll of ribbon is 7.2 m long. How many pieces of length 0.4 m can be cut from it?

Answer: 18 pieces

7 A baker has 12 kg of flour. She puts 0.25 kg of flour into each bag. How many bags can she fill?

Answer: 48 bags

8 A car travels 78.4 miles using 8 litres of fuel. How many miles does it travel on 1 litre?

Answer: 9.8 miles

9 2.5 kg of apples cost £4.50. 1.5 kg of pears cost £3.15. Which fruit is cheaper per kilogram?

Answer: Apples (£1.80 per kg compared with £2.10 per kg)

10 Fill in the gap: $? \times 0.4 = 3.2$

Answer: 8

11 Work out $3.6 \times 0.5 + 4.2 \div 0.6$

Answer: 8.8

12 Without working it out, is $5 \div 0.5$ bigger or smaller than 5? Give a reason, then work it out.

Answer: Bigger; 10

13 Ben says: " $4.8 \div 0.6 = 0.8$ because $48 \div 6 = 8$." Explain his mistake and give the correct answer.

Answer: 8

14 A decimal is divided by 0.2 and the answer is 35. What was the decimal?

Answer: 7

15 The area of a rectangle is 2.24 cm^2 . Its length is 3.5 cm. Work out its width.

Answer: 0.64 cm