

GCSE Maths: Dividing (Higher): answers

GCSE Maths - Number Basics - Higher - Lesson 1.4

Answers. Final answers to the worksheet questions. Full step-by-step solutions for every question are free at websink.site/gcse/maths/ch01-number-basics/higher/dividing/

Exercise 1D Dividing whole numbers and decimals Non-calculator

1 Work out each division using your times tables.

(a) $56 \div 7$

Answer: 8

(b) $81 \div 9$

Answer: 9

(c) $132 \div 12$

Answer: 11

(d) $96 \div 8$

Answer: 12

2 Use short division.

(a) $936 \div 4$

Answer: 234

(b) $1548 \div 6$

Answer: 258

(c) $4032 \div 8$

Answer: 504

(d) $6175 \div 5$

Answer: 1235

3 Use short division. Write each answer with a remainder.

(a) $487 \div 6$

Answer: 81 remainder 1

(b) $1000 \div 7$

Answer: 142 remainder 6

(c) $2345 \div 9$

Answer: 260 remainder 5

4 Use long division.

(a) $936 \div 24$

Answer: 39

(b) $7523 \div 34$

Answer: 221 remainder 9

(c) $4704 \div 28$

Answer: 168

(d) $10\,000 \div 16$

Answer: 625

5 Work these out as decimals. The answers do not need rounding.

(a) $9 \div 4$

Answer: 2.25

(b) $3 \div 8$

Answer: 0.375

(c) $17 \div 20$

Answer: 0.85

(d) $45 \div 16$

Answer: 2.8125

6 Work out these divisions of decimals by whole numbers.

(a) $7.5 \div 5$

Answer: 1.5

(b) $0.84 \div 7$

Answer: 0.12

(c) $12.6 \div 9$

Answer: 1.4

(d) $20.4 \div 12$

Answer: 1.7

7 Work out each division by a decimal.

(a) $7.2 \div 0.4$

Answer: 18

(b) $5.6 \div 0.07$

Answer: 80

(c) $0.9 \div 0.03$

Answer: 30

(d) $4.5 \div 1.5$

Answer: 3

(e) $18 \div 0.25$

Answer: 72

8 420 students are going on a trip. Each coach holds 53 students. How many coaches are needed?

Answer: 8 coaches

9 Five friends share a bill of £7.35 equally. How much does each friend pay?

Answer: 1.47

10 A recipe uses 2.4 kg of flour to make 16 cakes. How much flour is used for one cake?

Answer: 0.15

11 Mia works out $4 \div 0.5$. She says the answer is 2 because "half of 4 is 2". Explain her mistake and work out the correct answer.

Answer: 8

12 Work out $3.24 \div 0.12$.

Answer: 27

13 A pack of 12 batteries costs £9.84.

(a) Work out the cost of one battery.

Answer: £0.82

(b) Work out the cost of 15 batteries bought one at a time at this price.

Answer: £12.30

14 Show that $8.4 \div 0.07 = 120$.

Answer: $8.4 \div 0.07 = 120$

15 Without a calculator, show that $7.2 \div 0.4 = 72 \div 4$. Explain why multiplying both numbers by 10 does not change the answer.

Answer: $7.2 \div 0.4 = 72 \div 4 = 18$