

GCSE Maths: Multiplying (Higher): answers

GCSE Maths - Number Basics - Higher - Lesson 1.3

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/multiplying/

Exercise 1C Multiplying whole numbers and decimals

Non-calculator

1 Work out each multiplication by splitting off the tens, hundreds or thousands.

(a) 34×20

Answer: 680

(b) 250×30

Answer: 7500

(c) 46×200

Answer: 9200

(d) 7.5×40

Answer: 300

(e) 0.8×600

Answer: 480

(f) 125×4000

Answer: 500 000

2 Use short multiplication to work these out.

(a) 245×6

Answer: 1470

(b) 1308×7

Answer: 9156

(c) 86×9

Answer: 774

(d) 4125×8

Answer: 33 000

3 Use long multiplication.

(a) 47×36

Answer: 1692

(b) 308×25

Answer: 7700

(c) 726×48

Answer: 34 848

(d) 1204×63

Answer: 75 852

4 Work out each product. Do not use a calculator.

(a) 0.6×0.8

Answer: 0.48

(b) 2.5×4.2

Answer: 10.5

(c) 12.4×0.35

Answer: 4.34

(d) 0.09×0.7

Answer: 0.063

(e) 6.8×5

Answer: 34

(f) 0.25×0.12

Answer: 0.03

5 There are 36 students on a school trip. Each student pays £14.50. Work out the total amount paid.

Answer: 522

6 Eggs are sold in boxes of 24. A shop buys 125 boxes. How many eggs is that?

Answer: 3000 eggs

7 Without working it out, which is bigger: 7.3×0.9 or 7.3? Give a reason.

Answer: 7.3 is bigger

8 Ravi works out 38.6×4.7 and gets 1814.2. Use an estimate to show that his answer is wrong, then work out the correct answer.

Answer: 181.42

9 Work out 458×236 .

Answer: 108 088

10 A field is a rectangle 125.4 m long and 48 m wide. Work out its area.

Answer: 6019.2 m²

11 Show that $0.3 \times 0.4 = 0.12$ by writing both decimals as fractions.

Answer: $0.3 \times 0.4 = 0.12$

12 Write down two numbers, each with exactly one decimal place, that multiply to give 0.24.

Answer: 0.4 and 0.6 (or 0.3 and 0.8)

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