

Multiplying Decimals

ANSWERS

1

Work out 0.7×0.4

Each small square is 0.01

$7 \times 4 = 28$ small squares

$= 7 \div 10 \times 4 \div 10$

$= 28 \div 100$

$= 0.28$

2

Work out 0.6×0.04

$$= 6 \div 10 \times 4 \div 100$$

$$= 24 \div 1000$$

$$= 0.024$$

3

Work out 1.2×0.3

$$= 12 \div 10 \times 3 \div 10$$

$$= 36 \div 100$$

$$= 0.36$$

4

Work out 0.05×0.8

$$= 5 \div 100 \times 8 \div 10$$

$$= 40 \div 1000$$

$$= 0.04$$

5

Work out 2.4×0.06

$$= 24 \div 10 \times 6 \div 100$$

$$= 144 \div 1000$$

Answer 0.144

6

Work out 0.9×0.9

$$= 9 \div 10 \times 9 \div 10$$

$$= 81 \div 100$$

Answer 0.81

7

Ribbon costs £0.60 a metre.
Find the cost of 2.5 metres.

$$6 \div 10 \times 25 \div 10 = 150 \div 100$$

Answer $£1.50$

8

Given that $24 \times 36 = 864$, write down the value of 2.4×0.36

$$24 \div 10 \times 36 \div 100 = 864 \div 1000$$

Answer 0.864

Multiplying Decimals *further practice*

ANSWERS

9

Work out

1.8×0.07

$$18 \times 7 = 126, 3 \text{ decimal places}$$

Answer 0.126

10

Work out

6×0.35

$$6 \times 35 = 210, 2 \text{ decimal places: } 2.10$$

Answer 2.1

11

Which is bigger, 0.6×0.7 or 0.06×8 ? Show how you know.

$$0.6 \times 0.7 = 0.42, 0.06 \times 8 = 0.48$$

Answer 0.06×8

12

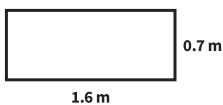
Cheese costs £8.40 per kg.
Ben buys 0.3 kg of cheese.
How much does he pay?

$$84 \times 3 = 252, 2 \text{ decimal places}$$

Answer $£2.52$

13

Work out the area of this rectangle.



$$16 \times 7 = 112, 2 \text{ decimal places}$$

Answer 1.12 m^2

14

Find the missing number.

$$0.4 \times 0.7 = 0.28$$

$$4 \times 7 = 28$$

15

Fabric costs £4.50 per metre.
Sam buys 2.4 m of fabric and pays with a £20 note. How much change does he get?

$$4.5 \times 2.4 = 10.80, 20 - 10.80$$

Answer $£9.20$

16

Kat knows that $36 \times 14 = 504$.
She says the answer to 3.6×1.4 is 50.4. Is Kat right? Explain.

$$2 \text{ decimal places, and } 4 \times 1 = 4$$

Answer *No, $3.6 \times 1.4 = 5.04$*