Multiplying decimals

ANSWERS

1

Work out 3.2 × 1.4

×	30	2
10	300	20
4	120	8

Answer 4.48

Estimate 3 × 1 = 3

No points 32 × 14 = 448

Decimal places 1 + 1 = 2

2

Work out 2.6 × 3.3

×	20	6
30	600	180
3	60	18

Answer 8.58

Estimate 3 × 3 = 9

No points 26 × 33 = 858

Decimal places 1 + 1 = 2

3

Work out 5.1 × 2.7

×	50	1
20	1000	20
7	350	7

Answer 13.77

Estimate 5 × 3 = 15

No points 51 × 27 = 1377

Decimal places 1 + 1 = 2

4

Work out 1.8 × 4.6

×	10	8
40	400	320
6	60	48

Answer 8.28

Estimate 2 × 5 = 10

No points 18 × 46 = 828

Decimal places 1 + 1 = 2

5

A pack of batteries costs £4.35.
Work out the cost of 7 packs.

×	400	30	5
7	2800	210	35

Answer £30.45

Estimate £4 × 7 = £28

No points 435 × 7 = 3045

Decimal places 2 + 0 = 2

6

Work out 0.07 × 0.6

Ones	Tenths	Hundredths	Thousandths
0	0	4	2

Answer 0.042

No points 7 × 6 = 42

Decimal places 2 + 1 = 3

7

Kian says 0.9 × 0.5 = 4.5.
Explain his mistake, then work out the right answer.

Answer 0.45

9 × 5 = 45, and 1 + 1 = 2 decimal places

his answer has only 1 decimal place

0.9 × 0.5 = 0.45

8

You are told that 34 × 26 = 884.
Use this to work out
a) 3.4 × 2.6 b) 0.34 × 2.6

Answer a) 8.84 b) 0.884

a) 1 + 1 = 2 decimal places

b) 2 + 1 = 3 decimal places

Multiplying decimals *further practice*

ANSWERS

9

Work out 6.3 × 0.4

63 × 4 = 252

1 + 1 = 2 decimal places

Answer 2.52

10

Pens cost £1.29 each. Work out the cost of 8 pens.

129 × 8 = 1032

2 decimal places

Answer £10.32

11

Work out the area of this rectangle.



24 × 15 = 360

2 decimal places: 3.60

Answer 3.6 m^2

12

Find the missing number.

0.6 × 0.7 **= 0.42**

6 × 7 = 42

2 decimal places

Answer 0.7

13

Which is bigger, 0.3 × 0.8 or 0.05 × 6?
Show how you know.

0.3 × 0.8 = 0.24

0.05 × 6 = 0.30

Answer 0.05 × 6

14

Ribbon costs £0.85 per metre.
Work out the cost of 3.2 m of ribbon.

85 × 32 = 2720

3 decimal places: 2.720

Answer £2.72

15

Jack buys 3 sandwiches at £2.65 each.
He pays with a £10 note.
How much change does he get?

265 × 3 = 795, so £7.95

£10 – £7.95

Answer £2.05

16

You are told that 52 × 18 = 936.
Lily says 5.2 × 1.8 = 93.6. Use an estimate to explain why she is wrong.
Write the right answer.

5 × 2 = 10, so 93.6 is too big

1 + 1 = 2 decimal places

Answer 9.36