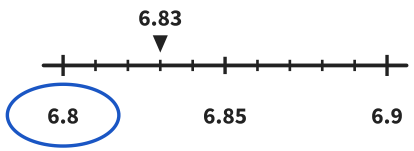
Rounding to decimal places

ANSWERS

1

Round **6.83** to 1 decimal place.

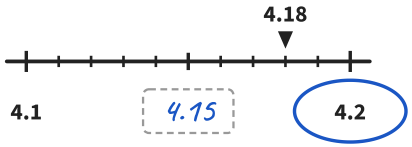


6.83 is *before halfway*

Answer *6.8*

2

Round **4.18** to 1 decimal place.



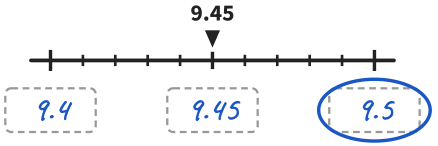
halfway: *4.15*

4.18 is *past halfway*

Answer *4.2*

3

Round **9.45** to 1 decimal place.



9.45 is *exactly halfway, so round up*

Answer *9.5*

4

Round **12.574** to 2 decimal places.
Draw a line after the second decimal place.

12.57 | 4

next digit: 4

so: *4 or less, the 7 stays the same*

Answer *12.57*

5

Round **0.4862** to 2 decimal places.
Draw a line after the second decimal place.

0.48 | 62

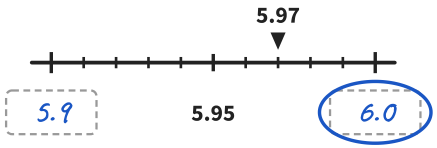
next digit: *6*

so: *5 or more, the 8 goes up to 9*

Answer *0.49*

6 *Notice the change!*

Round **5.97** to 1 decimal place.



next digit: *7, round up*

so: *the 9 rolls over: 6.0*

Answer *6.0*

7

Theo rounds 4.649 to 1 decimal place.
He writes 4.649 → 4.65 → 4.7.
Explain his mistake. Then write the right answer.

he rounded in steps

only look at the next digit, 4

Answer *4.6*

8

Six friends share a bill of £22.90 equally.
A calculator shows how much each pays, in pounds. Write it to the nearest penny.

3.816666667

next digit: *6, round up*

Answer *£3.82*

Rounding to decimal places *further practice*

ANSWERS

9

Round 8.0372 to 2 decimal places.

next digit: 7, round up

the 3 goes up to 4

Answer *8.04*

10

Round 3.6049 to 1, 2 and 3 decimal places.

1 d.p. 3.6, 2 d.p. 3.60

3 d.p. 3.605 (next digit 9)

Answer *3.6, 3.60, 3.605*

11

Round 19.996 to 2 decimal places.

next digit: 6, round up

19.99 + 0.01 = 20.00

Answer *20.00*

12

Which of these numbers round to 7.3 to 1 decimal place?

7.25 7.34 7.209 7.35 7.296

7.209 → 7.2, 7.35 → 7.4

7.25 is halfway, so it rounds up

Answer *7.25, 7.34, 7.296*

13

Four friends share a taxi fare of £9.30 equally. How much does each pay, to the nearest penny?

9.30 ÷ 4 = 2.325

next digit: 5, round up

Answer *£2.33*

14

A rectangle is 3.4 cm long and 2.7 cm wide. Work out its area. Give your answer to 1 decimal place.

3.4 × 2.7 = 9.18

next digit: 8, round up

Answer *9.2 cm²*

15

A number with 2 decimal places rounds to 2.3 to 1 decimal place. What is the smallest it could be? What is the largest?

2.25 is halfway, so it rounds up

2.35 would round to 2.4

Answer *2.25 and 2.34*

16

Mia rounds 6.98 to 1 decimal place. She writes 6.10, because 9 + 1 = 10. Explain her mistake and write the right answer.

9 tenths + 1 tenth = 1 whole

so the 6 goes up to 7: 7.0

Answer *7.0*