

Year 6 Maths Home Learning Resources
Term 5, Week 2

Session 4: Rounding decimal numbers to different degrees of accuracy

These questions use and apply the rounding skills we discussed in the session 3 video. If you think that you might need a bit more practise, have another look at the video for session 3.

The answers are on the answer sheet so that you can check your work afterwards.

Can you explain it?

Colin thinks that 4.99 rounded to the nearest whole number is 5.0

Explain why he is incorrect:

(He is incorrect because he thought The correct answer is He should have)



He is incorrect because he thought that he should write the zero in the tenths' column, after the decimal point but that is showing tenths. The correct answer should be 5, with no decimal places. He needs to remember that when you round the a whole number, there are no places after the decimal point.

Can you apply it?



Find the missing numbers:

When rounded to the nearest whole number, my answer is 3.

If my number has one decimal place?
What could it have been?

2.5, 2.6, 2.7, 2.8, 3.0, 3.1, 3.2, 3.3, 3.4

If my number has 2 decimal places, what could it have been?

As above with any digit in the hundredths' column

Solve a problem:



Cocoa wants to buy 3 gifts for her friends, and she has £20 to spend.

Gifts cost:

£6.52 £7.32 £7.28 £6.17 £6.33

Which gifts should she buy to give her the least amount of change?

£6.52 + £7.28 + £6.17 = £19.97

Find the missing numbers:

I begin with a number with one decimal place and multiply it by 4.

I round my answer to the nearest whole number to give 5.

What could my number have been? (Find all possible solutions)

1.2 x 4 = 4.8; 1.3 x 3 = 5.2

Solve a Problem:

Using the digit cards 2, 4, 6, 9, create the number that is the closest to 25.

— — . — —
24.96