

WALT round decimals with two decimal places.

WILF:

- *Use your place value understanding.*
- *See which number yours is closest to on a number line.*
- *Change the number in the column to the left if you need to.*



Rounding decimals works the same way as rounding other numbers, however you are looking at the decimal places (tenths and hundredths) rather than the whole number (tens or ones).

a) 7.8 →



b) 3.43 →



We look at the hundredths column first when there are two decimal places. 3 is smaller than 5, so we round it down to 3.4
4 is smaller than 5.
What should it be rounded to?

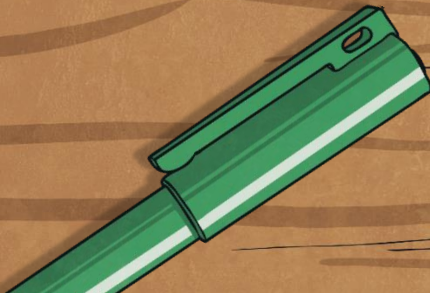
When we are rounding a whole number, we look at the decimal places to see how close they are to the next whole number.

Rounding decimals works the same way as rounding other numbers, however you are looking at the decimal places (tenths and hundredths) rather than the whole number (tens or ones).

a) $7.8 \rightarrow 8$



b) $3.43 \rightarrow 3$



a) 9.22 $\rightarrow$ 9.2



b) 6.87 $\rightarrow$ 6.9



Now round to the nearest tenth.
Use the number lines to help
you.
Which side is it closest to?

a) 9.22 → 9.2



b) 6.87 → 6.9



Round the numbers to the nearest tenth. Use the number lines to help you. Draw a place value column if you are confused.

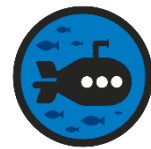
One decimal place Two decimal places

Round to the nearest tenth.

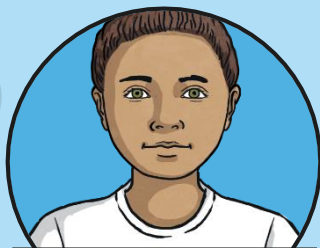
Ones	Tenths	Hundredths
1	6	4
1	6	0

Is it closer to 10 or 0?
(Above or below 5?)
↓
Below = round down, 5
or above = round up.

If you get confused, use your place value column. If the number you are looking at is below 5, round down. If it's above, look to the left and round up.



Petra is thinking of a number with tenths and hundredths.
When it is rounded to the nearest whole number, the number is 15.
Rounded to the nearest tenth it is 14.6.



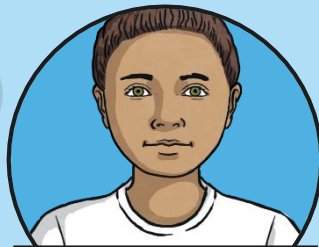
Petra

14.62	15.12
14.51	14.59
14.66	

Which of these could
be Petra's number?



Petra is thinking of a number with tenths and hundredths.
When it is rounded to the nearest whole number, the number is 15.
Rounded to the nearest tenth it is 14.6.



Petra

14.62

15.12

14.51

14.59

14.66

Which of these could be Petra's number?

Can you think of a different number which could be Petra's number?

Twinkl's challenge:

Here are the numbers
I made:

When rounded to the
nearest whole number,
I round to 46.

When rounded to the
nearest tenth, I round
to 7.9.

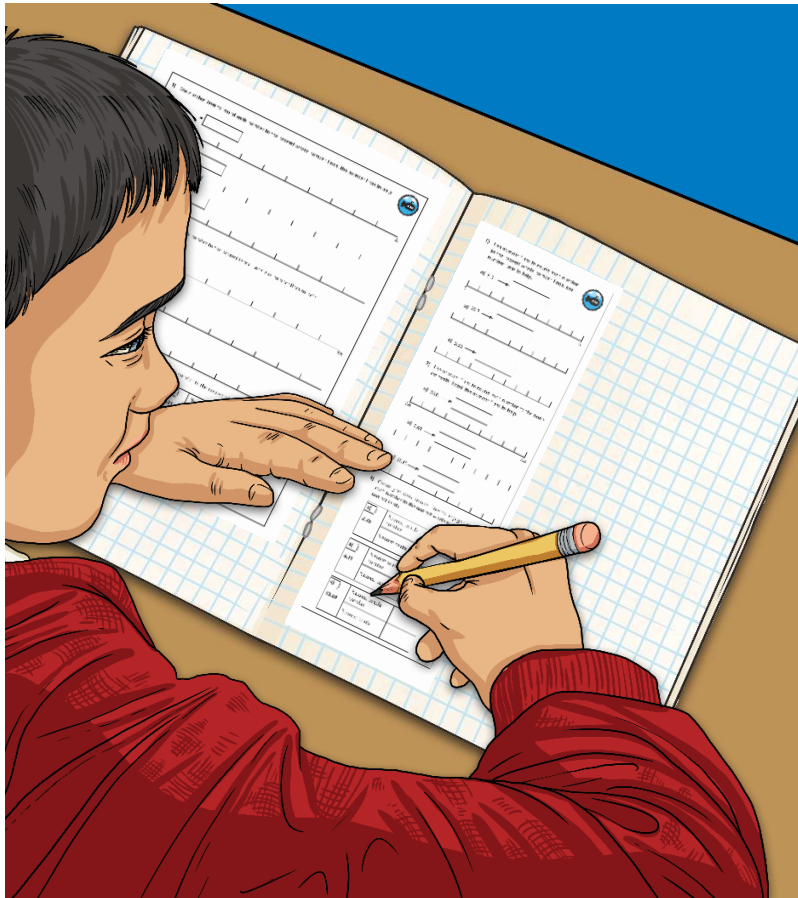
When rounded to the
nearest whole number,
I round to 3.

Use the digits **2, 3, 4,**
5, 6, 7, 8 and **9** once
only to make numbers
with at least one
decimal place.

What numbers
did you make?

Rounding Decimals

Now complete the activity. 😊



1) Work out the number lines to round each number to the nearest whole number. Label the number lines to help.

a) 5.3 →

b) 10.7 →

c) 8.35 →

2) Use number lines to round each number to the nearest tenth. Label the number lines to help.

a) 7.48 →

b) 9.61 →

c) 12.15 →

3) Create your own number lines to help you round each number to the nearest whole number and the nearest tenth.

a)	Nearest whole number		b)	Nearest whole number	
2.75	Nearest tenth		4.11	Nearest tenth	

c)	Nearest whole number	
13.69	Nearest tenth	