

Maths Activity 4

14.01.21

WALT: round numbers accurately.

Rounding Whole Numbers and Decimal Numbers

Rules for rounding:

- Start by identifying the digit that you are meant to be rounding to.
- Then, look at the digit to the right of the one that you are supposed to be rounding to. For example: if you are rounding to the nearest ten then look at the digit in the ones column.
 - If the digit is 5 or more, then you need to round up
 - If the digit is less than 5, then you need to round down.

Examples:

Round 0.85 to the nearest 0.1:

The 8 digit is in the tenths column. We now need to look at the hundredths column to identify whether we are rounding up or rounding down. The digit in the hundredths column is 5, so that means that we need to round up.

0.85 rounded up to the nearest 0.1 would equal 0.9.

Round 0.172 to the nearest 0.01:

The 7 digit is in the hundredths column. We now need to look at the column to the right of this, which is the thousandths column, to identify whether we are rounding up or rounding down. The digit in the thousandths column is less than 5, so that means that we need to round down.

0.172 rounded down to the nearest 0.01 would equal 0.17.

For further guidance and example questions, go on the following link for BBC Bitesize 'Rounding decimals'.

<https://www.bbc.co.uk/bitesize/articles/zm6g9mn>

Your Task:

1 star:

1. Round these numbers to the nearest 1,000:
 - a) 2,300 to the nearest 1000 =
 - b) 7,800 to the nearest 1000 =
 - c) 4,200 to the nearest 1000 =
2. Round these numbers to the nearest 10,000:
 - a) 65,000 to the nearest 10,000 =
 - b) 31,000 to the nearest 10,000 =
 - c) 59,000 to the nearest 10,000 =
3. Round these numbers to the nearest 0.1:
 - a) 0.68 to the nearest 0.1 =
 - b) 0.72 to the nearest 0.1 =
 - c) 0.89 to the nearest 0.1 =

Examples:

0.23 to the nearest 0.1 = 0.2

0.76 to the nearest 0.1 = 0.8

2 stars:

1. Round these numbers to the nearest 10,000:
 - a) 72,563 to the nearest 10,000 =
 - b) 59,021 to the nearest 10,000 =
 - c) 541,937 to the nearest 10,000 =
2. Round these numbers to the nearest 100,000:
 - a) 294,837 to the nearest 100,000 =
 - b) 136,938 to the nearest 100,000 =
 - c) 7,823,483 to the nearest 100,000 =

3. Round these numbers to the nearest 0.1:

a) 0.32 to the nearest 0.1 =

b) 0.59 to the nearest 0.1 =

c) 0.28 to the nearest 0.1 =

Examples:

0.23 to the nearest 0.1 = 0.2

0.76 to the nearest 0.1 = 0.8

3 stars:

1. Round these numbers to the nearest 100,000:

a) 789,347 to the nearest 100,000 =

b) 1,213,496 to the nearest 100,000 =

c) 74,523,948 to the nearest 100,000 =

2. Round these numbers to the nearest 0.1:

a) 0.67 to the nearest 0.1 =

b) 0.52 to the nearest 0.1 =

c) 0.291 to the nearest 0.1 =

Examples:

0.23 to the nearest 0.1 = 0.2

0.76 to the nearest 0.1 = 0.8

3. Round these numbers to the nearest 0.01:

a) 0.083 to the nearest 0.01 =

b) 0.219 to the nearest 0.01 =

c) 0.857 to the nearest 0.01 =

Examples:

0.519 to the nearest 0.01 = 0.52

0.823 to the nearest 0.01 = 0.82