Rounding

- Round numbers to the nearest 10, 100, 1000
- Round numbers to the nearest 10000 or 100000

Rounding Numbers

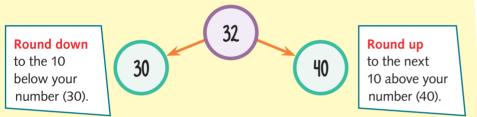
33

31

Rounding numbers makes them easier to work with and can help you to estimate answers to calculations.

Example

To round **32** to the nearest **10**, you have a choice of rounding to 30 or 40:



When you look at a number line, you can see that 32 is nearer to 30 than 40. So you round 32 down to 30.

36

37

35

34

39

41

40

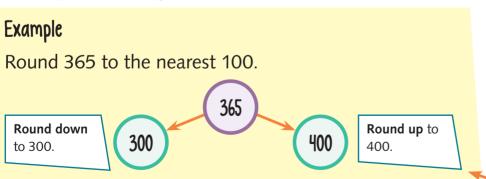
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Key Point

When you round numbers, you are asked to round them **'to the nearest...'** 10, 100, 1000, etc.

So 32 rounded to the nearest 10 is 30.

The key for rounding to the nearest 10 is the **units**. If the units are less than 5, you **round down**. If the units are 5 or above, you **round up**.



The key for rounding to the nearest 100 is the **tens** column. If the tens digit is less than 5, **round down**. If the tens digit is 5 or above, **round up**.

Tip

You could sketch a number line to help you. On a number line you would see that 365 is nearer 400 than 300.

The tens digit in 365 is a 6, so you round up to 400. So 365 rounded to the nearest 100 is 400. To round to the nearest 1000, you need to look at the hundreds column. If the hundreds digit is 5 or above, round up. If the hundreds digit is below 5, round down.

4765

5000.

5000



Round 4765 to the nearest 1000.

4000

To round to the nearest 10000, look at the **thousands** digit. If it is 5 or above, round up. If it is below 5, round down.

Example

Example

Round down

to 4000.

23725 to the nearest 10000 would round down to 20000 because the thousands digit is a 3.

To round to the nearest 100000, you look at the **tens of** thousands digit. If it is 5 or above, round up. If it is below 5, round down.

Example

583725 to the nearest 100000 would round up to 600000 because the tens of thousands digit is an 8.

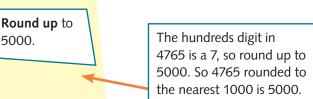
Quick Test

1. Round 64318 to the nearest: **c)** 1000 **a)** 10 **b)** 100 **d)** 100 000



- Round down
- Round up





Study