

Maths - Year 4

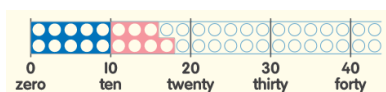
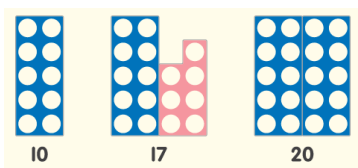
Numbers and the Number System 3: Estimating and rounding

Key Vocabulary		Mathematical Skills
Estimate	A good guess, close to the actual.	<ul style="list-style-type: none"> - Explain that we often talk about 'rough' or approximate' amounts. - Locate a number and the multiple of 10 closest to it on a number line. - Recognise situations in which it is useful to estimate. - Know when to use rounding to simplify calculations and give an approximate answer. - Use a rough sense of a calculation to help check their solution. - Round 3- or 4-digit numbers to a multiple of 10, 100 or 1000.
Rounding	Increasing or decreasing a number or amount to make it closer to (usually) a multiple of ten, or a whole measuring unit, e.g. rounding 353 to 350 or 89 cm to 1 metre.	
Approximate	Close to the actual, but not completely accurate or exact.	

Mathematical Methods

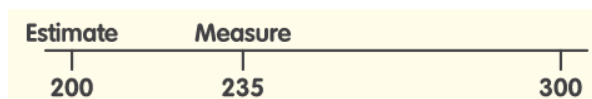
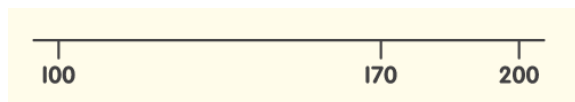
- Round amounts and approximations in everyday use e.g. My 300ml bottle of shampoo is half full. How much have I used?

- Measuring to the nearest 10.



0	7	10
10	17	20
20	27	30
30	37	40
40	47	50

- Estimating to the nearest metre or the nearest 100 e.g. 170cm is closest to 200 (2 metres).



- Rounding to the nearest metre e.g. 6543cm would round to 7000cm (70 metres).

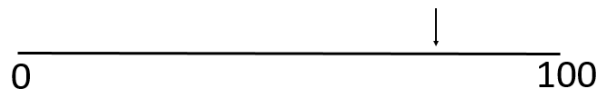
- Rounding in other contexts e.g. using money.

- Rounding calculations to support estimation.

40	50	60	70	80	90	100	110
			28 + 38				
			30 + 40				

Can you..?

- Estimate the missing number.



- Abi travels 162cm each time her bicycle wheels go round. Her wheels have gone round twice. Roughly how many metres has she travelled?
- Raj is thinking of a whole number. It rounds to 6000 to the nearest 1000. Can you find the lowest number and the highest number it could be?
- Estimate answers to a) $248 + 38$ b) $182 - 59$