



3 Years

Mathematical Foundations



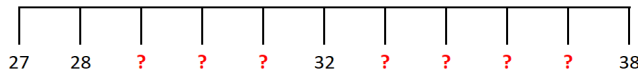
- 1) Count up to 100 and beyond
- 2) Count up and down in 10's
- 3) Be able to write numbers up to 100

- 4) Compare and order numbers easily by looking at the correct columns
- 5) Understand what 10's represent in diagrams and written numbers

Test your Understanding

1) a) Can you count up to 30?

b) Fill in the gaps on this number line



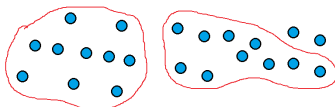
2) a) Can you count up in 10's to 100?

b) Add up some 10p, 20p and 50p coins

3) Count these buttons. Write down how many there are

4) Put these in order... 7, 21, 26, 18, 30, 5

5) How many dots are?



7 Years

Key Skills and Concepts



- 1) Write any number in words and figures
- 2) Use place value when performing written and mental calculations without having to use your fingers

- 3) Multiply and divide integers by 10 and 100
- 4) Multiply and divide decimals by 10, 100, 1000 etc
- 5) Identify the value of a digit in a given number based on which column it is in

Test your Understanding

1) a) Write three hundred and twenty eight in figures

b) Write 8407 in words

2) Work out a) $43 + 57$ b) $49 + 62$ c) $58 - 39$

3) Work out a) 18×10 b) 42×100 c) $6700 \div 10$

4) Work out a) 2.4×10 b) $65 \div 100$ c) 3.9×100

5) What is the value of the digit 7 in each of these numbers?

a) 671 b) 7392 c) 8.7 d) 36.97

11 Years

Optimise GCSE Performance



- 1) Use Place value when multiplying larger numbers together (long multiplication)
- 2) Use place value to confidently estimate calculations

3) Multiply and divide numbers by decimals between 0 and 1

4) Use place value to see how a change in the question affects the answer

5) Understand numbers written in standard form

Test your Understanding

1) Use a written method to work out...

a) 8×24

b) 273×6

c) 28×36

2) A monkey eats 2.12kg of food per day. At a zoo there are 4898 monkeys in the UK. ESTIMATE how many kilograms of food all those monkeys will get through in a month.

3) Work out a) 7×0.3 b) 0.3×0.2 c) 32×0.64 d) $12 \div 0.4$

4) Given that $72 \times 6.3 = 456$ write down the answers to

a) 7.2×6.3 b) 72×630 c) 0.72×63 d) $456 \div 0.63$

5) a) i) $7.5 \times 10^5 = ?$ ii) $2.8 \times 10^{-3} = ?$

b) Write i) 36700 and ii) 0.00071 in standard form

16 Years