

Autumn Block 1

Place value

Small steps

Step 1

Roman numerals to 1,000

Step 2

Numbers to 10,000

Step 3

Numbers to 100,000

Step 4

Numbers to 1,000,000

Step 5

Read and write numbers to 1,000,000

Step 6

Powers of 10

Step 7

10/100/1,000/10,000/100,000 more or less

Step 8

Partition numbers to 1,000,000

Small steps

Step 9

Number line to 1,000,000

Step 10

Compare and order numbers to 100,000

Step 11

Compare and order numbers to 1,000,000

Step 12

Round to the nearest 10, 100 or 1,000

Step 13

Round within 100,000

Step 14

Round within 1,000,000

Autumn Block 2

Addition and subtraction

Small steps

Step 1

Mental strategies

Step 2

Add whole numbers with more than four digits

Step 3

Subtract whole numbers with more than four digits

Step 4

Round to check answers

Step 5

Inverse operations (addition and subtraction)

Step 6

Multi-step addition and subtraction problems

Step 7

Compare calculations

Step 8

Find missing numbers

Autumn Block 3

Multiplication and division A

Small steps

Step 1

Multiples

Step 2

Common multiples

Step 3

Factors

Step 4

Common factors

Step 5

Prime numbers

Step 6

Square numbers

Step 7

Cube numbers

Step 8

Multiply by 10, 100 and 1,000

Small steps

Step 9

Divide by 10, 100 and 1,000

Step 10

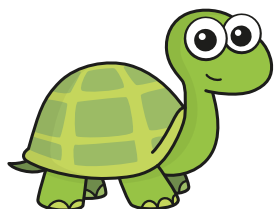
Multiples of 10, 100 and 1,000

Multiples of 10, 100 and 1,000

Reasoning and problem solving

Tiny is working out $600 \div 25$
Here are Tiny's workings.

$$\begin{aligned} 600 \div 25 \\ 600 \div 2 &= 300 \\ 300 \div 5 &= 60 \\ 600 \div 25 &= 60 \end{aligned}$$



Explain why Tiny is incorrect.
Find the correct answer.

24

Whitney is using the fact that
 $6 \times 7 = 42$ to work out $420 \div 70$



The answer
is 60, because all
the numbers are 10
times greater.

Do you agree with Whitney?
Explain your answer.

No

Which is the correct way to work
out $800 \div 25$?

A

$$\begin{aligned} 800 \div 100 &= 8 \\ 8 \div 4 &= 2 \end{aligned}$$

B

$$\begin{aligned} 800 \div 100 &= 8 \\ 8 \times 4 &= 32 \end{aligned}$$

B

Explain your answer.

Autumn Block 4

Fractions A

Small steps

Step 1 Find fractions equivalent to a unit fraction

Step 2 Find fractions equivalent to a non-unit fraction

Step 3 Recognise equivalent fractions

Step 4 Convert improper fractions to mixed numbers

Step 5 Convert mixed numbers to improper fractions

Step 6 Compare fractions less than 1

Step 7 Order fractions less than 1

Step 8 Compare and order fractions greater than 1

Small steps

Step 9 Add and subtract fractions with the same denominator

Step 10 Add fractions within 1

Step 11 Add fractions with total greater than 1

Step 12 Add to a mixed number

Step 13 Add two mixed numbers

Step 14 Subtract fractions

Step 15 Subtract from a mixed number

Step 16 Subtract from a mixed number – breaking the whole