

The Journey – Four Operations Y6

Vocabulary

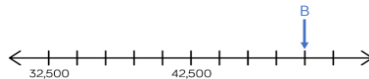
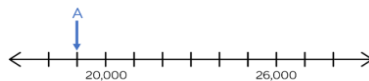
Calculate, Calculation (mental, written) number sentence, sign, symbol, mixed operations, order of operations, inverse, equation, jottings, diagrams, pictures, images, add, plus (+) makes, sum, total, altogether subtract, minus (-), take away, leaves, difference, group, share, equal groups of, grouping array, row, column multiply, multiplication, multiplied by (x) share equally, divide, division, divided by (÷) remainder, round up, round down double, halve, pair, near double, half, scale, scaling digit, numeral, integer, multiple, factor, common factor, common multiple, divisor, quotient, product, square number, cube number factorise, divisible, divisibility, prime, prime factor, consecutive, lowest common multiple (LCM), highest common factor (HCF)

- Add and subtract integers
- Common factors
- Common multiples
- Rules of divisibility
- Primes to 100
- Square and cube numbers
- Multiply up to 4-digits by 2-digit
- Solve problems with multiplication
- Short division
- Division using factors
- Introduction to long division
- Long division with remainders
- Solve problems with division
- Solve multi-step problems
- Order of operations
- Mental calculations and estimation

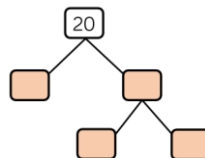
Reasoning and Problem solving

$$\begin{array}{r}
 64 \square 8 \square \\
 - 3 \square 2 \square 8 \\
 \hline
 27314
 \end{array}$$

Find the difference between A and B.



All numbers can be broken down into prime factors. A prime factor tree can help us find them. Complete the prime factor tree for 20



4 boxes weigh 292 kg.
4 boxes and 7 bags weigh 656 kg.
How much does one bag weigh?

There are 49 pears and 56 oranges.



They need to be put into baskets of pears and baskets of oranges with an equal number of fruit in each basket.

$$6,120 \div 17 = 360$$

Explain how to use this fact to find

$$6,480 \div \text{★} = 360$$

Final Investigations

Match the pictures to the five different explanations of how to solve the same problem. Draw your own to a new calculation.

