



Year 5

- read, write, order and compare numbers to at least 1 million and numbers with up to three decimal places, determine the value of each digit
- interpret negative numbers in context, counting forwards and backwards
- round any number up to a million to a power of 10 and decimals with two decimal places to the nearest whole or tenth
- add and subtract whole numbers with more than four-digits, including using formal written methods
- identify prime numbers to 100 and recall those to 19, awareness of prime factors and non-prime numbers
- short multiplication and division of four-digit by a one-digit and long multiplication of four-digit by two-digit number
- multiply and divide whole numbers and those involving decimals by 10, 100 and 1000
- compare, order, add and subtract fractions whose denominators are all multiples of the same number
- understand that per cent relates to "number of parts per 100", and write percentages as a fraction with denominator 100, and as a decimal
- multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams

- convert different units of metric measures; understand and use equivalences between metric and imperial units
- calculate the perimeter of composite rectilinear and the area of rectangles using standard units

- given angles and measure them in degrees (°) including acute, obtuse and reflex angles
- distinguish between regular and irregular polygons based on reasoning about equal sides and angles

- solve number problems and practical problems involving these ideas**

To support your child at home, Year 5 fluency objectives have been broken down into terms.

Autumn

$$80 \times 2 = 160 \quad 800 \times 2 = 1,600$$

$$6 \times 20 = 120 \quad 6 \times 200 = 1,200$$

$$80 \times 3 = 240 \quad 800 \times 3 = 2,400$$

$$6 \times 30 = 180 \quad 6 \times 300 = 1,800$$

$$80 \times 4 = 320 \quad 800 \times 4 = 3,200$$

$$6 \times 40 = 240 \quad 6 \times 400 = 2,400$$

$$80 \times 5 = 400 \quad 800 \times 5 = 4,000$$

$$6 \times 50 = 300 \quad 6 \times 500 = 3,000$$

$$80 \times 6 = 240 \quad 800 \times 6 = 2,400$$

$$6 \times 60 = 360 \quad 6 \times 600 = 3,600$$

Spring

$$8 \times 0.2 = 1.6 \quad 6 \times 0.2 = 1.2$$

$$8 \times 0.3 = 2.4 \quad 6 \times 0.3 = 1.8$$

$$8 \times 0.4 = 3.2 \quad 6 \times 0.4 = 2.4$$

$$8 \times 0.5 = 4 \quad 6 \times 0.5 = 3$$

$$8 \times 0.6 = 4.8 \quad 6 \times 0.6 = 3.6$$

$$8 \times 0.7 = 5.6 \quad 6 \times 0.7 = 4.2$$

Summer

Factor pairs for 36
1, 36 2, 18 3, 12 4, 9 6, 6

Factor pairs for 39
1, 39 3, 13

Factor pairs for 42
1, 42 2, 21 3, 14 6, 7

Factor pairs for 48
1, 48 2, 24 3, 16 4, 12 6, 8

Factor pairs for 49
1, 49 7, 7

Factor pairs for 52
1, 52 2, 26 4, 13

Factor pairs for 56
1, 56 2, 28 4, 14 8, 7

Factor pairs for 59
1, 59

Factor pairs for 60
1, 60 2, 30 3, 20 4, 15 5, 12 6, 10

Autumn

$$0.9 + 0.1 = 1$$

$$0.1 + 0.9 = 1 \quad 1 - 0.9 = 0.1 \quad 1 - 0.1 = 0.9$$

$$0.8 + 0.2 = 1$$

$$0.2 + 0.8 = 1 \quad 1 - 0.8 = 0.2 \quad 1 - 0.2 = 0.8$$

$$0.7 + 0.3 = 1$$

$$0.3 + 0.7 = 1 \quad 1 - 0.7 = 0.3 \quad 1 - 0.3 = 0.7$$

Spring

Know a prime number is a number that is only divisible by one and itself.
Know that the number 1 is NOT a prime number.

Learn prime numbers to 19
2, 3, 5, 7, 11, 13, 17 and 19

Summer

0.1 equivalent to $\frac{1}{10}$ and to 10%

0.2 is equivalent to $\frac{2}{10}$ and $\frac{1}{5}$ and to 20%

0.3 is equivalent to $\frac{3}{10}$ and to 30%

0.4 equivalent to $\frac{4}{10}$ and $\frac{2}{5}$ and to 40%

0.5 equivalent to $\frac{5}{10}$ and $\frac{1}{2}$ and to 50%

0.6 equivalent to $\frac{6}{10}$ and $\frac{3}{5}$ and to 60%

