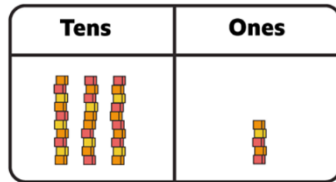


# Academic Year 2023-2024

## Stage 6

### Place Value



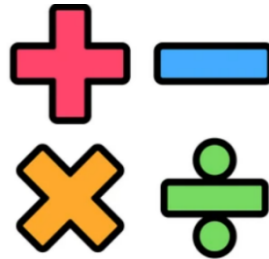
- Comparing numbers up to 10 million
- Multiplying and dividing decimals by 10, 100, 1000
- Rounding whole numbers to an appropriate degree of accuracy
- Using negative numbers in context
- 

### Multiplication and Division



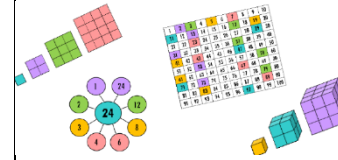
- Performing mental calculations with mixed operations
- Use long multiplication
- Using formal written method for short division
- Using formal method for long division
- Using written division methods including solutions up to 2dp

### Arithmetical Operations



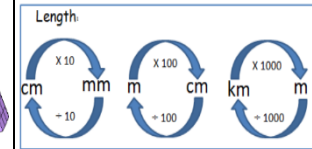
- Understand order of operations (BIDMAS)
- Solving multi-step addition and subtraction problems in context
- Solving problems with the four operators
- Multiplying whole numbers by decimals (up to 2dp)
- Solving number problems and puzzles

### Using factors, multiples and primes to work with fractions



- Identifying common factors and multiples and prime numbers
- Comparing and ordering fractions
- Using common factors and common multiples to find equivalent fractions
- Adding and subtracting fractions (different denominators and mixed numbers) using equivalent fractions

### Converting measures

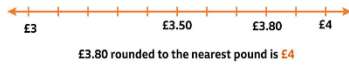


- Converting between standard units of length, mass, volume and time
- Solving problems involving converting between units of measure
- Converting between miles and kilometres

# Academic Year 2023-2024

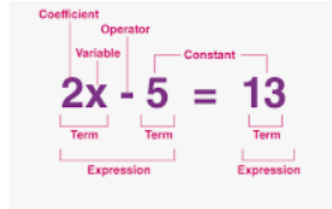
## Stage 5

### Accuracy and Proportion



- Using estimation to check answers
- Finding solutions to stated levels of accuracy
- Solving percentage problems including calculation and comparison
- Solving problems using multiplicative reasoning
- Solving problems involving unequal sharing and grouping

### Number problems and equations



- Finding possible combinations of two variables
- Finding number pairs to satisfy equations in two unknowns
- Expressing missing numbers algebraically

### Formulae and Sequences



- Using simple formulae
- Generating linear number sequences

### Fractions, decimals and percentages

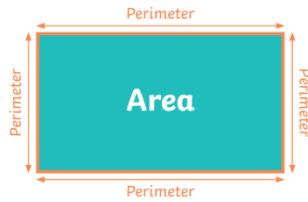
Fraction	Decimal	Percentage
		10%
$\frac{4}{5}$		
	0.17	
$\frac{3}{20}$		

- Working with equivalences between simple fractions, decimals and percentages
- Calculating decimal fraction equivalents for a simple fraction by considering fractions as divisions
- Multiplying simple pairs of proper fractions, giving answers in simplest form
- Dividing proper fractions by whole numbers

# Academic Year 2023-2024

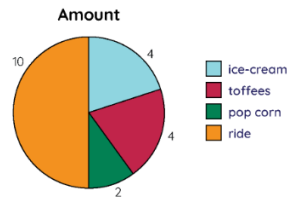
## Stage 5

### Perimeter, area and volume



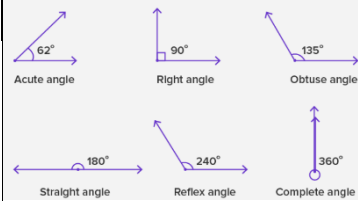
- Knowing shapes can have the same area, but different perimeter or the same perimeter but different area
- Knowing when to use a formula to find area or volume
- Finding area of triangles and parallelograms
- Working with volume of cubes and cuboids

### Pie charts and the mean



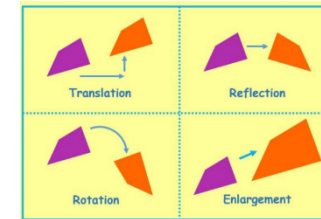
- Solving problems involving pie charts
- Understanding the mean

### Angles, shapes and solids



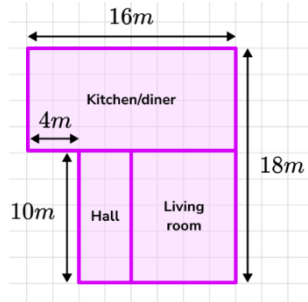
- Working with angles at a point, on a straight line, or vertically opposite
- Working with properties of polygons
- Knowing the correct terminology for circle parts
- Representing and building 3d shapes

### Translations and reflections



- Using coordinates to describe position
- Translating and reflecting shapes on a coordinate plane

### Dimensions and Scale



-Drawing 2d shapes

-Using scale factors to solve problems involving similar shapes