## Number Knowledge



## Number Strategies



Algebra


Students can typically use the mathematical knowledge and skills described at and below the level of their scale score.

Use knowledge of shapes and angle properties to identify the size of missing angles. Identify and express rotations in degrees, for example: identify a $1 / 3$ rotation as 120 degrees. Enlarge a shape by a given scale factor. Recognise the fractional scale factor needed for a reduction. Find the area of a rectangle given its width and perimeter. Identify how several faces on a net will be related to each other when the net is folded.

Identify the centre of rotation. Use fraction notation to describe a rotation. Read a point on a scale with five intervals between each label. Identify a missing angle in a triangle or in a right angle. Recognise instances of angles greater than 90 but less than 180 degrees. Identify an accurate definition of volume. Recognise that angles stay the same under enlargement. Convert between metres and centimetres, for example: add 12 cm and 63 mm . Reflect an object, making sure all internal orientations are preserved.

Identify the image produced when a simple shape is reflected in a mirror line. Rotate an object, making sure that internal orientations are preserved. Read a point on a scale onequarter of the way between labelled marks. Solve problems involving time calculations. Equate times shown in 24 -hour and 12 -hour formats. Calculate areas of shapes drawn on a grid. Calculate the volume of cuboids. Convert between grams and kilograms, for example: 4.5 kg is 4500 g . Identify how two faces on a net will be related when the net is folded.

Read a point halfway between labelled marks on a scale. Read and compare times shown on analogue and digital clocks. Use a scale to identify a horizontal or vertical distance on a grid, for example: when given the scale 1 square $=5 \mathrm{~km}$. Use a unit shape to cover a shown rectangular area.

Identify examples of left, right and clockwise turns. Choose an appropriate metric unit to measure a short length. Read a point on a scale halfway between consecutive numbers. Calculate differences between hourly times, for example: the amount of time between 10:00 am and 2:00 pm. Identify which shape can be made from a simple net. Name 2-D and 3-D shapes, for example: recognise cylinders and hexagons. Use compass points to determine direction.

Read a point on a scale marked in whole units. Identify a fold that can be used to divide a simple shape into two matching parts. Read a clock showing the time at the half-hour or hour. Identify instances of simple 2-D shapes.

## Statistics



