## Interim teacher assessment framework at the end of key stage 2 - mathematics

## Working at the expected standard

- The pupil can demonstrate an understanding of place value, including large numbers and decimals (e.g. what is the value of the ' 7 ' in 276,541?; find the difference between the largest and smallest whole numbers that can be made from using three digits; $8.09=8+9 ? ; 28.13=28++0.03)$.
- The pupil can calculate mentally, using efficient strategies such as manipulating expressions using commutative and distributive properties to simplify the calculation (e.g. $53-82+47=53+47-82=100-82=18 ; 20 \times 7 \times 5=20 \times 5 \times 7=100 \times 7$ $=700 ; 53 \div 7+3 \div 7=(53+3) \div 7=56 \div 7=8)$.
- The pupil can use formal methods to solve multi-step problems (e.g. find the change from $£ 20$ for three items that cost $£ 1.24, £ 7.92$ and $£ 2.55$; a roll of material is 6 m long: how much is left when 5 pieces of 1.15 m are cut from the roll?; a bottle of drink is 1.5 litres, how many cups of 175 ml can be filled from the bottle, and how much drink is left?).
- The pupil can recognise the relationship between fractions, decimals and percentages and can express them as equivalent quantities (e.g. one piece of cake that has been cut into 5 equal slices can be expressed as 15 or 0.2 or $20 \%$ of the whole cake).
- The pupil can calculate using fractions, decimals or percentages (e.g. knowing that 7 divided by 21 is the same as 721 and that this is equal to $13 ; 15 \%$ of $60 ; 112+34 ; 79$ of 108; $0.8 \times 70$ ).
- The pupil can substitute values into a simple formula to solve problems (e.g. perimeter of a rectangle or area of a triangle).
- The pupil can calculate with measures (e.g. calculate length of a bus journey given start and end times; convert 0.05 km into m and then into cm ).
- The pupil can use mathematical reasoning to find missing angles (e.g. the missing angle in an isosceles triangle when one of the angles is given; the missing angle in a more complex diagram using knowledge about angles at a point and vertically opposite angles).

