Fractions

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As outcomes, Year 5 pupils should, for example:	As outcomes, Year 6 pupils should, for example:
 Relate fractions to division. For example: understand that finding one third is equivalent to dividing by 3, so ¼ of 15 is equivalent to 15 ÷ 3; when 3 whole cakes are divided equally into 4, each person gets three quarters, or 3 ÷ 4 = ¾; recognise that 12⁄3 is another way of writing 12 ÷ 3. 	 Relate fractions to division. For example: understand that finding one tenth is equivalent to dividing by 10, so ¼10 of 95 is equivalent to 95 ÷ 10; when 9 whole cakes are divided equally into 4, each person gets nine quarters, or 9 ÷ 4 = 2¼; recognise that 60 ÷ 8 is another way of writing ⁶⁰/₆, which is the same as 74/₆.
	Answer questions such as: • How many halves in: $1\frac{1}{2}$, $3\frac{1}{2}$, $9\frac{1}{2}$? • How many quarters in: $1\frac{1}{4}$, $2\frac{3}{4}$, $5\frac{1}{2}$? • How many thirds in: $1\frac{1}{3}$, $3\frac{2}{3}$, $7\frac{1}{3}$?
See also remainders (page 57).	See also remainders (page 57).
Find fractions of numbers and quantities. For example, answer questions such as:	Find fractions of numbers and quantities. For example, answer questions such as:
 What is one tenth of: 80, 240, 1000? What is one hundredth of: 100, 800, 1000? 	 What is three tenths of: 80, 10, 100? What is seven tenths of: 50, 20, 200? What is nine hundredths of: 100, 400, 1000?
 What is ³/₁₀ of: 50, 20, 100? What is ³/₄ of: 16, 40, 100? 	 What is ⁴/₅ of: 50, 35, 100? 2 litres, 5 metres? What is ⁵/₈ of: 12, 48, 300? 12 km, 30 kg?
 Write ²³/₁₀₀ of £1 in pence. Write ⁷/₁₀ of 1 metre in centimetres. 	 Write ³/₁₀ of 2 metres in centimetres. Write ²³/₁₀₀ of 4 kilograms in grams. Write ⁷/₁₀₀₀ of 1 metre in millimetres.
 What fraction of £1 is 33p? 30p? What fraction of 1 metre is 27 cm? 20 cm? 	 What fraction of £1 is 35p? 170p? What fraction of 1 metre is 140 cm?
 What fraction of 1 km is 250 m? 200 m? What fraction of 1 kg is 500 g? 300 g? What fraction of 1 litre is 750 ml? 700 ml? What fraction of 1 day is 1 hour, 8 hours, 12 hours? 	 What fraction of 1 km is 253 m? What fraction of 1 kg is 397 g? What fraction of 1 litre is 413 ml? What fraction of one year is:
 I work for 8 hours and sleep for 10 hours. What fraction of the day do I work? What fraction of the day do I sleep? 	one week; one day; June?
What fraction of the smaller shape is the larger?	Relate fractions to simple proportions. See ratio and proportion (page 27).

Ratio and proportion

