Write as a product of prime factors.	**Percentage of an amount.**	**Exchange Rates.**	**HCF and LCM.**
(i) 72 (ii) 225 Write in the form $2^a \times 3^b \times 5^c \times 7^d$ 840	The price of a basket is £20. In a sale it was reduced by 15%, calculate the new price.	Bob goes on holiday to France. The exchange rate is £1 = 1.21 Euros. He changes £350 into Euros. a) How many Euros should he get? In France, Bob buys a digital camera for 115 Euros. b) Work out the cost of the camera in pounds.	Find the HCF of 108 and 24. Find the LCM of 150 and 120.
Ratio.	***Use of a calculator.**	**Index Laws.**	**Calcs with mixed numbers.**
The sides of a triangle are in the ratio 2 : 4 : 5. The middle sized side is 28 cm. (i) Find the length of the other two sides. (ii) Find the perimeter of the triangle.	Find the value of the following to 1dp. $$\frac{15^2 - 12^2}{\sqrt{9.6 - 3.87}}$$	Write as a power of 5 (i) $5^4 \times 5^2$ (ii) $5^9 \div 5^6$ $2^x \times 2^y = 2^{10}$ and $2^x \div 2^y = 2^4$ Work out the value of x and the value of y.	Work out, giving your answers as mixed numbers. $1\frac{2}{3} \times 2\frac{3}{10}$ $4\frac{2}{3} \div 1\frac{2}{5}$
Proportion.	**Estimation.**	**Reverse Percentages.**	***Compound interest.**
Here are the ingredients needed to make 16 gingerbread men. <u>Ingredients</u> - to make 16 gingerbread men 160g flour 40 g ginger 110g butter 30g sugar Hamish wants to make 24 gingerbread men. Work out how much of each of the ingredients he needs.	Estimate the value of … $$\frac{9.55 \times 79.9}{11.8 \times 13.03}$$	A holiday is advertised at a price of £403. This represents a saving of 35% on the brochure price. Work out the brochure price of the holiday.	A company bought a van that had a value of £12 000 Each year the value of the van depreciates by 25%. Work out the value of the van at the end of 3 years.

*Calculator allowed