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| **Write as a product of prime factors.**1. 72
2. 225

Write in the form 2ax3bx5cx7d840 | **Percentage of an amount.**The price of a basket is £20. In a sale it was reduced by 15%, calculate the new price. | **Exchange Rates.**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.  | **HCF and LCM.**Find the HCF of 108 and 24.Find the LCM of 150 and 120. |
| **Ratio.**The sides of a triangle are in the ratio 2 : 4 : 5.The middle sized side is 28 cm.1. Find the length of the other two sides.
2. Find the perimeter of the triangle.
 | **\*Use of a calculator.**Find the value of the following to 1dp.$$\frac{15^{2}-12^{2}}{\sqrt{9.6-3.87}}$$ | **Index Laws.**Write as a power of 51. 54 x 52
2. 59 ÷ 56

2x *x* 2y = 210 and 2x *÷* 2y = 24Work out the value of x and the value of y. | **Calcs with mixed numbers.**Work out, giving your answers as mixed numbers.$$1\frac{2}{3}×2\frac{3}{10}$$$$4\frac{2}{3}÷1\frac{2}{5}$$ |
| **Proportion.**Here are the ingredients needed to make 16 gingerbread men. Ingredients - 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.  | **Estimation.**Estimate the value of ...$$\frac{9.55×79.9}{11.8×13.03}$$ | **Reverse Percentages.**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.  | **\*Compound interest.**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