REVISION TEST 3

1 Write down the remainder when the square of 8 is divided by 12. 2 $\frac{2}{3}(65-56) =$ 3 What is the value of $2^7 \div 2^4$? 4 Share £550 in the ratio 5:6. 5 Write 24% of 35 as a decimal. 6 325 × 0.1 = 7 $2 \times 0.2 \times 0.02 =$ 8 0.00398 becomes 0.004 when rounded to three significant figures. True or false? 9 $\frac{1}{2} < \frac{27}{36} < \frac{5}{6}$. True or false? 10 If a = 2, b = 3, c = 0, find the value of $a^3 - \frac{bc}{a}$. 11 $\frac{27}{x^2} = X$, so X =12 Write the next three terms of the sequence. 2, 3, 5, 7, 11, 13, 17, 19, , , , 13 If I buy 40l of petrol at 64.5p per litre, how much change will I get from £30? 14 The price of a car costing £12450 rises by 4%. What is the new price of the car? **15** Which is the larger quantity, **a** 2 litres or **b** half a gallon? 16 Which is the longer length, a 2 metres or b 6 feet? 17 A TV programme begins at 11.35 p.m. and ends at a quarter to two in the morning. How long is the programme? 18 Freya runs 100m in 12s. What is her speed in kilometres per hour? 19 A delivery van has a load space measuring 1.8m wide, 2m high and 2.4m long. How many parcels each measuring 50cm × 60cm × 80cm can be fitted inside? 20 A parallelogram is drawn so that its smallest angle is one third the size of its largest angle. How big is the largest angle? 21 Which letters of the word TORCH have one and only one axis of symmetry? 22 Find the area of a garden measuring 11.85m long and 6.05m wide to the nearest square metre. 23 A point P has coordinates (-2, 5). It is translated by the mapping $(x, y) \rightarrow (x + 3, y + 3)$. What are the new coordinates of point *P*? 24 On a map of scale 1:50000, two towns are 12cm apart. What is the actual distance between the two towns in kilometres? 25 12 coloured balls are placed in a bag. Three are red, four are blue and the remainder are green. If one ball is taken from the bag,

what is the probability that it will be green?