R	EVISION TEST 3	Schofield & Sims
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.	£250 : £300
5	Write 24% of 35 as a decimal.	8.4
6	325 × 0.1 =	32.5
7	$2 \times 0.2 \times 0.02 =$ .	0.008
8	0.00398 becomes 0.004 when rounded to three significant figures. True or false?	false
9	$\frac{1}{2} < \frac{27}{36} < \frac{5}{6}$ . True or false?	true
10	If $a = 2$ , $b = 3$ , $c = 0$ , find the value of $a^3 - \frac{bc}{a}$ .	8
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, , ,	23, 29, 31
13	If I buy 40I of petrol at 64.5p per litre, how much change will I get from £30?	£4.20
14	The price of a car costing £12 450 rises by 4%. What is the new price of the car?	£12948
15	Which is the larger quantity, <b>a</b> 2 litres or <b>b</b> half a gallon?	b
16	Which is the longer length, a 2 metres or b 6 feet?	a
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?	130min
18	Freya runs 100m in 12s. What is her speed in kilometres per hour?	30km/h
19	A delivery van has a load space measuring 1.8m wide, 2m high and 2.4m long. How many parcels each measuring $50  \text{cm} \times 60  \text{cm} \times 80  \text{cm}$ 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?	135°
21	Which letters of the word TORCH have one and only one axis of symmetry?	T, C
22	Find the area of a garden measuring 11.85m long and 6.05m wide to the nearest square metre.	72m²
23	A point <i>P</i> has coordinates (–2, 5). It is translated by the mapping $(x, y) \rightarrow (x + 3, y + 3)$ . What are the new coordinates of point <i>P</i> ?	
24	On a map of scale 1:50 000, two towns are 12cm apart. What is the actual distance between the two towns in kilometres?	6km
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?	

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26	Write down the coordinates of each corner of triangle H.	(3, -1) (4, 2) (7, 0)
27	Write down the coordinates of one corner of shape G that have a negative x-value.	(-1,1)
28	Write down the coordinates of one corner of shape G that have a negative y-value.	(1, -1)
29	Write down the coordinates of the mid-point of the shortest side of triangle A.	(~9, 4.5)
30	Write down the coordinates of one corner of shape I that have equal size x-value and y-value.	(-6,6)
31	Which circle, F or L, has centre coordinates such that the sum of the <i>x</i> -value and the <i>y</i> -value is 0.	<u>L</u>
32	Which of the following, if any, is a reflection of shape B in the y-axis? Choose from: C, D, G, K, J or none.	
33	Which of the following, if any, is a reflection of shape B in the x-axis? Choose from: C, D, G, K, J or none.	
34	On the grid above, sketch in the reflection of shape M in the x-axis.	***
35	Which of the following, if any, is a translation of shape B? Choose from: C, D, G, K, J or none.	<b>G</b>
36	Write down the mapping that will translate shape K to position D.	(x+3, y+8)
37	Write down the mapping that will translate the centre of circle F to the origin.	(x + 3, y - 1)
38	Which shape has the larger area, K or M?	K
39	Which shape has exactly half the area of shape A?	
40	Which of the following shapes have the same area as shape E? Choose from: B, D, F, H or M.	B and D