

Question	Answer	Marks	Notes and guidance
I	0.8	I	
2	Ninety thousand	I	Accept 90 000
3	3.6	I	
4	Accept any common multiple of 12 and 15 e.g. 60, 120, 180 etc	2	Award I mark for listing at least 3 multiples of each number.
5a	84	I	
5b	2	I	
6a	88	2	Award I mark for fully correct method to find the value of x. e.g. $360 - (98 + 95 + 79)$
6 b	<u>Angles</u> in a <u>quadrilateral</u> sum to <u>360°</u>	I	Award 0 for an incomplete/incorrect reason. e.g. Angles in a quadrilateral
7	£1.20	2	Accept 120p Answer must include correct units Award 1 mark for fully correct method to find cost per kg. e.g. 72 ÷ 0.6
8 a	6.6	I	Accept answers in the range $6.5 \le x \le 6.7$
8b	c. 22.5	2	Accept answers in the range $22 \le x \le 23$ Award I mark for fully correct method to find the value of 50 lb in kilograms e.g. their value for 5 lb × 10



9a	$\binom{-6}{23}$	2	Award I mark for fully correct method to calculate $2a + b$. e.g. $\binom{2(-3)+0}{2(7)+9}$ or either term correct.
9b	Correct vector drawn anywhere on the grid. e.g.	2	Award I mark for vector correct magnitude but with no/incorrect direction indicated.
10	0.104, 0.34, 0.4, 0.401, 0.44	2	Award I mark for at least 3 numbers correctly ordered.
lla	30 minutes oe	I	
ПЬ	50	2	Award I mark for fully correct method to calculate the distance. e.g. 80 – 30
llc	80 70 60 50 40 30 20 10 09:00 10:00 11:00 12:00 13:00 14:00 15:00	2	Award I mark for each correct section.



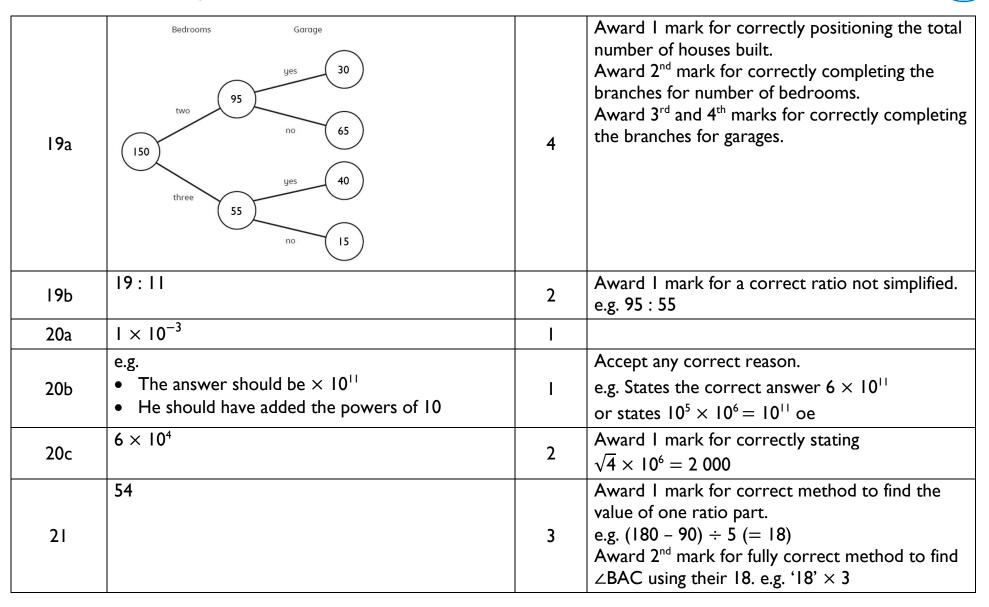
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IId	32 kmh	2	Award I mark for fully correct method to calculate speed. e.g. 80 ÷ 2.5 Accept equivalent forms
12	Fully correct pie chart Activities Asleep Work	4	Accept angles drawn within 2° of exact values. Award I mark for correct method to find any angle. e.g. $8 \div 24 \times 360$ (= 120) Award 2 nd mark for all angles correct. e.g. 120, 144 and 148 Award 3 rd mark for attempt to draw at least one of their calculated angles onto the pie chart.
13	135	3	Award I mark for fully correct method to find the volume of the tank. e.g. $45 \times 60 \times 50$ (= 135 000) Award 2 nd mark for fully correct method to find amount in litres using their '135 000' e.g. '135 000' \div 1000
l 4a	3.828793103	2	Award I mark for correctly evaluating $6.12 + 3.07^2 = 15.449$
I 4b	3.83	I	Accept 'their' value for part a) correctly rounded to 2 decimal places.
I 5a	All three coordinates accurately plotted	I	



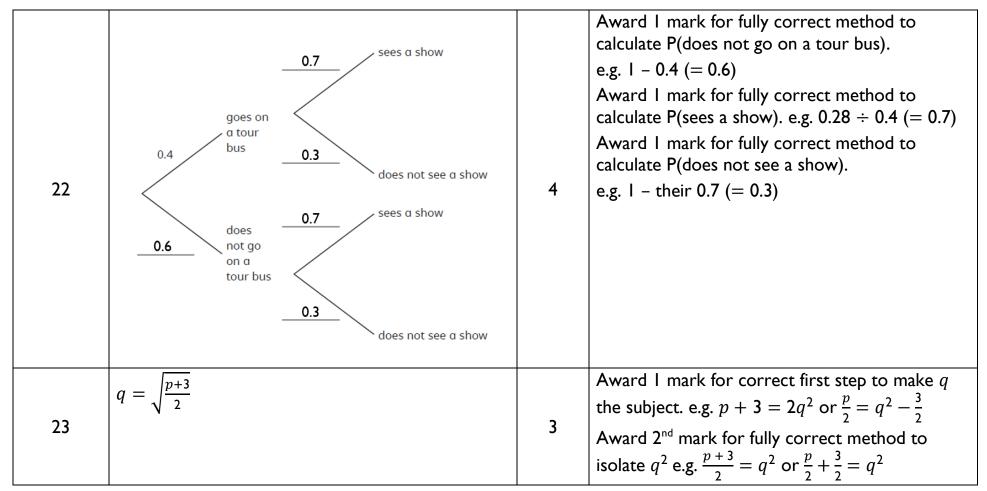
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I 5b	y = 2x + 4	2	Award I mark for an equation in the form y = 2x + c or $y = mx + 4$
16	$\begin{array}{c} & & & y \\ & & & 5 \\ & & & 4 \\ & & & 3 \\ & & & 2 \\ & & & 2 \\ & & & 2 \\ & & & 2 \\ & & & 2 \\ & & & 2 \\ & & & 2 \\ & & & 2 \\ & & & &$	2	Award I mark for image correctly translated in either the horizontal or vertical directions.
17	e.g.108 km/h > 88 km/h	2	Accept a fully correct comparison in m/s or any other appropriate units. Award I mark for fully correct method to convert either cheetah's or springbok's speed to allow a comparison e.g. 30 × 3600 ÷ 1000 or 88 ÷ 3600 × 1000
18a	2016 and 2018	I	
I 8b	e.g. "The trend shows that the percentage of waste recycled by the council is increasing"		Accept any reason that indicates a positive trend
l8c	e.g. "You don't know if it will carry on increasing or not"	Ι	Accept any reason that implies understanding of extrapolation





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24	80		Award I mark for calculating the sum of the two numbers. i.e. 96
		3	Award 2 nd mark for fully correct method to calculate the size of the larger number.
			e.g. 96 \div 6 \times 5
25	24	3	Award I mark for correctly forming equation in terms of r. e.g. $3r^3 = 1536$
25			Award 2^{nd} mark for correctly calculating $r = 8$
26a	e.g. $\angle ABE = \angle ACD$ and $\angle AEB = \angle ADC$ because corresponding angles are equal and $\angle CAD$ is common therefore ABE and ACD are triangles as all the angles are equal.	2	Accept any correct explanation that uses corresponding angles and common angles.
20a			Award I mark for correctly identifying any pair of equal angles.
24	1.5	2	Award I mark for any correct method to find
26b			DE. e.g. $6 \div (8 \div 2)$ or $2 \div \frac{8}{6}$
26c	6.25	2	Award I mark for any correct method to find CD. e.g. $\frac{10}{8} \times 5$