

Question	Answer	Marks	Notes and guidance
	24	2	Award I mark for sight of one share worked out as 8 or $40 \div 5$ or equivalent seen
I	0.6 : 1	Ι	Accept $\frac{3}{5}$: 1
	Accept 15 – 18 inclusive	2	Award I mark for line for reasonable attempt at line of best fit
2	Any reasonable explanation e.g.	I	
	There is strong correlationThe points are close to a straight line		
	Any reasonable explanation e.g.	I	
	 There is a non-linear relationship There is no correlation, but there is a different pattern 		
	8	I	
3	80	I	



	Completes	s table co	rrectly			I		
		1	2	3	4			
	1	1	2	3	4			
	2	2	4	6	8			
	3	3	6	9	12			
4	4	4	8	12	16			
	$\frac{3}{16}$					I	Accept any correct equivalent. Follow through from their table.	
	$\frac{1}{4}$					I	Accept any correct equivalent. Follow through from their table.	
	- 4, - 4 and 4				2	Award I mark for any two values correct		
5	Plots points correctly and joins with reasonably smooth curve			easonably	2	Award I mark for at least 5 of their points plotted correctly		
6	 States "no" and gives a valid reason e.g. He drive three times as far as she did His distance is three times greater 		I					
0	180 60	distance i	s un ee u	ines great		2	Award I mark for attempt at 120 ÷ 2	
7	<u>5</u> 6					2	Award I mark for correct method e.g. attempt at $\frac{2}{3} \times \frac{5}{4}$	
	12					I		



	$\frac{5b}{3}$	I	
	Indicates middle graph only	I	Accept any clear indication e.g. tick, circle, underlined
8	48 (miles)	I	
	40 (minutes)	I	
	3	I	
9	(0, 1)	I	
	(1, 2)	I	
10	4 7 12	3	Award 2 marks for fully correct multiplication of $3\frac{2}{3}$ and $1\frac{3}{4}$ (i.e. $\frac{77}{12}$ or equivalent) OR Fully correct method with no more than one arithmetical error OR $\frac{55}{12}$ Award I mark for correct method to multiply $3\frac{2}{3}$ by either $1\frac{1}{4}$ or $1\frac{3}{4}$



Year 8 Autumn Higher Paper A

	Complete	s table co	orrectly			3	Award I	marks for	correctly p	placing all	given data
		London	Manchester	York	Total						
	Year 7	65	50	38	153			London	Manchester	York	Total
	Year 8	32	40	75	147		Year 7	65			
11	Total	97	90	113	300		Year 8	32	40		147
							Total		90		300
							Award 2 and work correctly	marks for ing out at	correctly p least two o	blacing all other valu	given data Jes
	52.5 m ²					3	Accept 52	25 000 cm	2		
12							Award I Award I Award I	mark for o mark for o mark for o	correct me correct ans correct unit	thod wer ts	
	$\frac{1}{4}$					I	Accept any correct equivalent e.g. $\frac{2}{8}$, 25%, 0.25				5%, 0.25
13	$\frac{1}{4}$					I	Accept ar	ny correct	equivalent	e.g. $\frac{2}{8}$, 25	5%, 0.25



Question	Answer	Marks	Notes and guidance
	Selects all three pairs correctly i.e.		Award I mark for two correct pairs
	3(a-4) and $3a-12$		
I	$a \times a \times a$ and a^3	2	
	8 + a and $a + 8$		
	2	I	
2	Chooses $y = \frac{1}{2}x$ and $y = 12 - x$ only	I	Accept any clear indication – circled, underlined, ticked etc.
	Completes table correctly:	I	Award I mark for 2 boxes correctly ticked and no
	• 7 in final column		other errors
	 I0 dots drawn in correct pattern on third row 		
3	3n + 1	2	Award 1 mark for any expression involving $3n$
	States yes and shows	I	
	$1 \times 5 = 5$		
	$5 \times 5 = 25$		
	$25 \times 5 = 125$ $125 \times 5 = 625$		
	9	2	Award I mark for at least one of $4^0 = 1$ or
4			$64^{\frac{1}{2}} = 8$ seen
	4 ³⁰	I	



Year 8 Spring Higher Paper

_	$\frac{24}{15}$ or equivalent e.g. $\frac{8}{5}$, 1.6 etc.	I	
5	64	2	Award I mark for correct method e.g. $40 \div 5 \times 8$ or equivalent
6	> =	2	Award I mark for each correct symbol
	4×10^{-2}	2	Award I mark for 0.04 seen
7	Rounds 38.1 cm to 40 cm (or equivalent) and multiplies by 3		No marks for just the answer
,	120 cm or 1.2 m		
	100		
8	> < <	3	Award I mark for each correct answer
9	12 <i>a</i> ³	I	
	3a	I	
10	180	3	Award I mark for 60% = 108 seen or implied Award I mark for correct method to find total from their percentage =108



Year 8 Spring Higher Paper

	Obtains a^2 , $7a$ and 35	2	Award 1 mark for any two correct answers – do not accept $a7$ for $7a$
11	$a^2 + 12a + 35$	I	Allow terms in any order
			Follow through from first part provided answer includes a^2 , a term in a and a constant
12	£40 000	2	Award I mark for correct method
	8a	I	
13	3a + 3 or $3(a + 1)$	I	
	$a > \frac{3}{5}$	2	Award I mark for forming correct inequality and at least I correct step towards solution e.g.
14	$4.65 \le x < 4.75$	2	Award I mark for each value



Question	Answer	Marks	Notes and guidance
	37	I	
I	 States no and justifies answer e.g. 3n + 7 = 38 does not have an integer answer Shows sequence contains 76 and 79 and so cannot contain 78 	2	Award I mark for correct method
2	20%	2	Award I mark for attempt to convert $\frac{4}{20}$ into a percentage
3	e.g. Whitney sends more texts on average, but the number of texts sent by Huan does not vary as much	2	Award I mark for a comment about the mean and I for a comment about the range.
	$x = 34.5^{\circ}$	2	Award I mark for equating $2x - 4$ and 65 and attempting to solve
4	$x > 3\frac{1}{2}$ or equivalent	3	Award I mark for correct expansion of brackets Award 2 nd mark for first correct step to solve resulting inequality
5	e.g. "It makes the increase look very large when it's only a very small percentage change"	I	Any sensible explanation
6	500 m	2	Must include "m" Award I mark for attempt to find the perimeter and multiply by 20



7	Correct perpendicular bisector drawn	2	Award I mark for appropriate arcs
	Correct pie chart drawn, with labels	3	Award I mark for correct angles found (162°, 114°, 84°) Award 2 nd mark for accurate diagram
8	$\frac{9}{20}$ or equivalent	I	e.g. 45%, 0.45 or any equivalent fraction including $\frac{54}{120}$ or $\frac{162}{360}$
	72	2	Award I mark for correct method to find the total number of students (180)
9	$40 + \frac{9\pi}{2}$	3	Allow $40 + 4.5\pi$ or any exact equivalent form Award I mark for area of trapezium found to be 40 Award I mark for substituting $r = 3$ into $A = \pi r^2$ and attempting to halve their answer



Year 8 Summer Higher Mark Scheme

	y = x	I	
10	Correct rectangle drawn i.e.	2	Award I mark for 3 out of 4 points correct or rectangle in correct orientation but in wrong position
11	8 (with workings)	3	No marks for 8 without justification. Award 1 mark for sharing 180 in the ratio 3 : 1 Award 2 nd mark for correct method to find number of sides e.g. $\frac{360}{\text{their "45"}}$
12	1.3	3	Award I mark for correct final column Award 2 nd mark for dividing their total (from correct method) by 20
13	0, 8 × 10 ⁻³ , 2 ⁻³ , 4 ^{$\frac{1}{2}$} , 5 × 10 ³ or 0, 0.008, $\frac{1}{8}$, 2, 5000	2	Accept the numbers written in any form Award I mark for one misplaced value or correct method to work out at least three of the first four expressions



14	123 found with full method e.g. 3x - 6 = 99 - 2x (corresponding angles are equal) Leading to $x = 21$ 99 - 2x = 57 Base angles in an isosceles triangle are equal, so $57 + y = 180$ (angles on a straight line add up to 180°)	3	Award 2 marks if 123 found but method or reasons incomplete Award I mark for $x = 21^{\circ}$ correctly found Award I mark for using base angles in an isosceles triangle are equal and angles on a straight line add up to 180° with their value of $99 - 2x$ to find y
----	--	---	---