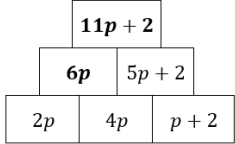


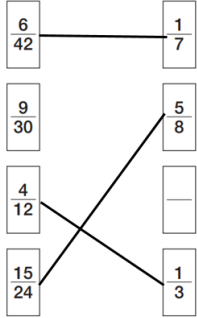
Year 7 Autumn Higher Paper A

Question	Answer	Marks	Notes and guidance
1	0, 1, 2 or 3	1	
2	6200	1	
3	$3p^2$	1	
	$8ab$	1	
4	$\frac{9}{5}$ correctly indicated on the number line	1	
	$1\frac{4}{5}$	1	
5	0.125	1	
	64%	1	
	e.g. 6001, 5955, 5999.2, 6049.99	1	Any value x in the range $5950 \leq x < 6050$
6	18	1	
	13.5	1	
7	Indicates $10 - n$	1	Accept any clear indication e.g. circled, underlined etc.
	Indicates n^2	1	
	e.g. 1	1	Any value n in the range $n < \frac{4}{3}$

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8	8.08	1	
	2.828	1	
9	$\frac{3}{10}$	1	Allow any equivalent fraction e.g. $\frac{30}{100}$ but do not allow 0.3 nor 30%
	19	1	
10	 $m = 5$	1	Completes pyramid with both terms correct
		2	Allow one mark for complete process with one error e.g. <ul style="list-style-type: none"> • $8m = 35$(error), $m = \frac{35}{8} = 4.375$ • $7m = 35, m = 8$ (error)
11	207	1	
	0.25	1	Allow $\frac{25}{100}$
	95	1	
12	$\frac{73}{1000}$ or 0.073	1	Allow any equivalent value
13	49.5	1	
14	26	3	3 marks for fully correct with no wrong working.

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			<p>If incorrect, marks as follows:</p> <p>M1 - correct method to find value of pentagon e.g. "55 - 43" or "12" seen</p> <p>M1 - correct method to find value of square e.g. "50 - 2 x their result to 55 - 43" seen</p>
15	 <p>$\frac{3}{10}$</p>	2	<p>Matches the three given fractions to their simpler equivalents.</p> <p>Allow one mark for two correctly matched</p>
		1	<p>Completes last box with $\frac{3}{10}$ (may be matched to $\frac{9}{30}$ but not necessary. Do not allow if matched to a different fraction)</p>
16	<p>e.g. "Divide by 3" or "$\div 3$"</p> <p>$12t$</p>	1	
		1	
17	<p>21.65</p> <p>2×10^7</p>	1	
		1	

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18	e.g. $\frac{3}{9} = \frac{10}{30}$ or $\frac{3}{45} = \frac{2}{30}$ etc. $\frac{100}{40} = \frac{250}{100} = 2.5$	1 1 1	Any two integers whose product is 90. 1 mark for 40, 1 for 250 – these marks are independent of each other
19	0.000 000 07 <u>0.000 000 7</u> 7 000 000 70 000 000	1	Accept any clear indication e.g. circled, underlined etc.

Question	Answer	Marks	Notes and guidance
1	-11 in top row -6 in middle row 2 in bottom row	2	Award 1 mark for any two correct values.
2	32	2	Award 1 mark for fully correct method e.g. attempt to subtract 15 from 79 and divide their answer by 2
3	Chooses A with 11 and 10 seen	2	Award 1 mark for: <ul style="list-style-type: none"> • 11 and 10 correctly evaluated but incorrect or no decision • One value correct and correct decision made for their values
4	92 p	3	Award 1 mark for correct method to work out the total cost as 39×28 Award 1 mark for correct method to subtract £10 from their answer to 39×28 , must be consistent units either all in £ or all in pence. Award 1 mark for correct answer.
5	$\frac{8}{21}$ and $\frac{13}{21}$ on second row $\frac{4}{7}$ on bottom row	2	Award 1 mark for any two correct values.

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6	11	2	Award 1 mark for working out $ab = 6$ and attempting to find c such that $-5 + c = 6$
7	136	2	Award 1 mark for fully correct method i.e. attempting to add 473 and 250 and then to subtract 587 from the result.
8	7.8	1	
	3.7	1	
	-4.5	2	Award 1 mark for correct first step e.g. $\frac{c}{3} = -1.5$ or $c + 10.5 = 6$
9	$3a - 3b$ in middle right circle	1	
	$a - 4b$ in bottom right circle	1	
10	36	2	Award 1 mark for fully correct method i.e. $0 \times 6 + 1 \times 9 + 2 \times 4 + 4 \times 1 + 5 \times 3$ (could also include 3×0)
11	20	3	Award 1 mark for $B = 16$
			Award 1 mark for A correctly evaluated as $2 \times$ their value of B . Award 1 mark for C correctly evaluated as $640 \div$ their value of A .

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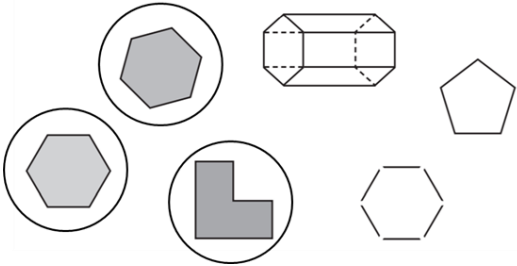
12	450	2	<p>Award 1 mark for fully correct method with no more than one numerical error e.g.</p> <ul style="list-style-type: none"> • correct use of trapezium formula • splitting shape into rectangle and triangle, finding the areas and adding.
13	2.8×10^6 (or 2 800 000)	2	<p>Award 1 mark for converting both numbers correctly to ordinary form and attempting to subtract or converting 2×10^5 to 0.2×10^6 and attempting to subtract.</p>
14	2.6 m	2	<p>Accept 260 cm. Award 1 mark for fully correct method i.e. finding total length by multiplying 2.7 by 3 and attempting to subtract the other two lengths using consistent units.</p>
15	$1\frac{4}{15}$	2	<p>Award 1 mark for $\frac{19}{15}$ or equivalent</p>
	$\frac{1}{12}$	2	<p>Accept any exact equivalent form. Award 1 mark for fully correct method i.e. valid attempt to add $\frac{3}{4}$ and $\frac{1}{6}$ and subtract the result from 1.</p>
16	2.725	1	<p>Accept any equivalent form.</p>
	$2\frac{11}{15}$	2	<p>Accept any equivalent form. Award 1 mark for correct method with no more than one numerical error.</p>
	$\frac{p}{2}$	1	<p>Accept any equivalent form e.g. $\frac{5p}{10}$, $0.5p$ etc.</p>

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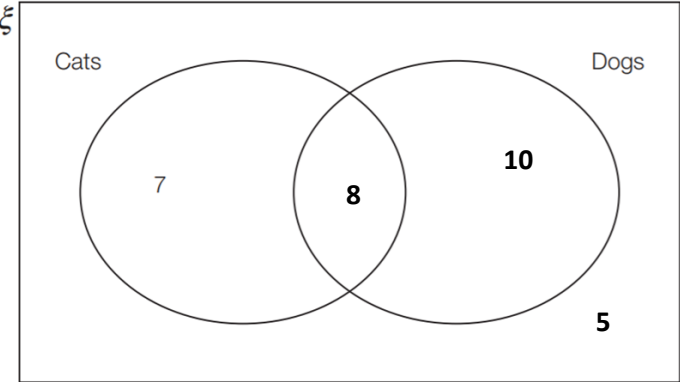


Question	Answer	Marks	Notes and guidance
1	Indicate yes with correct explanation e.g. "It only has two factors"	1	
	83 OR 89	1	
2	26	2	Award 1 mark for fully correct method i.e. attempts to divide 364 by 2 and then divide the result by 7 (allow divisions in either order)
3	e.g. 0.751, 0.76 etc.	1	Any decimal x such that $0.75 < x < 0.78$
4	850.2	1	
	327	1	
5	8.25	2	Accept $8\frac{1}{4}$ etc. Award 1 mark for fully correct method i.e. attempt to divide 11 by 2, multiply the result by 3 and divide this result by 2 OR 16.5 seen
	18	1	
	$\frac{1}{24}$	1	
	62.41	2	Award 1 mark for fully correct method with no more than one numerical error

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6	Indicates the correct shapes e.g. 	1	Must indicate all three hexagons and no extras.
	1080°	2	Award 1 mark for fully correct method e.g. 6 x 180° seen
7	Correct angle drawn at B (292°)	1	Allow 290 – 294°
	Draws equilateral triangle of length 7cm with construction lines clearly visible	2	Award 1 mark for equilateral triangle of any length with construction lines clearly visible OR at least one side of 7cm AND at least one correct arc
8	-8	2	Award 1 mark for correct first step e.g. $x + 3 = -5$ or $\frac{x}{5} = -1 - \frac{3}{5}$
	$3\frac{17}{20}$	2	Award 1 mark for any fully correct method
	$7a + 45$	1	

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9	<p>129° with fully correct reasons e.g. $\angle BCE = 51^\circ$ (Corresponding Angles are equal) So $x = 129^\circ$ (Angles on a straight line add up to 180°)</p>	3	<p>Award 2 marks for correct answer with no incorrect working but e.g. full reasons not given</p> <p>Award 1 mark for one correct step in working e.g. using angles on a straight line, corresponding or alternate angles – may be seen on diagram, reason need not be stated if scoring just 1/3</p>
10	<p>Correctly completes diagram:</p> 	2	Award 1 mark for two of the three regions correct.
	$\frac{7}{30}$	1	

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11	9	1	
	6.5 million, 2.8×10^8 , 560 000 000, 3 billion, 2.4×10^{10}	2	Accept list of numbers in any form or mixture of forms Award 1 mark for clear attempt at writing all the numbers in the same format
	560 000 000	1	Follow through the middle item of their ordered list – must have made some attempt at ordering
12	Completes the spinner with 2, any odd prime, any square of an even number e.g. 2, 3, 16 2, 11, 36 etc.	2	Award 1 mark for any two of 2, any odd prime, any square of an even number
13	Complete proof e.g. $2x + x + 20 + 55 = 180$ $3x + 75 = 180$ $x = 35$ Angles are 55, 55 and 70 Two are equal, so the triangle is isosceles	3	Award 1 mark for forming a correct equation in x Award a second mark for solving equation correctly and attempting to find the angles in the triangle