













Mathematics

Stage 7

Paper 1 2024

Cambridge Lower Secondary Progression Test

Mark Scheme

Question	Answer	Marks	Part Marks	Guidance
1	11	1		
2(a)	70(%)	1		
2(b)	0.14	1		
3(a)	13	1		
3(b)	42	1		
4	20 and 41	2	Award 1 mark for each correct answer.	
5(a)	Chooses the Chooses an number 5 number 8 odd number	1		All three answers in the correct order for the mark. Accept any clear indication.
5(b)	$\frac{2}{6}$	1		Accept equivalent fraction, decimal or percentage.
6	Parallel line to <i>PQ</i> drawn.	1		Accept slight inaccuracies provided the intention is clear.
7	pie chart	1		Accept any clear indication.
8	$\frac{4}{100}$ and 0.04 and 4% only	1		All three answers correct for the mark. Accept any clear indication.

Question	Answer	Marks	Part Marks	Guidance	
9(a)(i)	(first term) 6 (fifth term) -14	2	Award 1 mark for each correct number.	If answer line is blank then check the sequence for answers in the correct spaces.	
9(a)(ii)	Subtract 5	1		Accept equivalent answers, e.g. take 5, – 5	
9(b)	63	1			
10(a)	24 (cm)	1			
10(b)	50(°)	1			
11(a)	8 and 5 and 5	2	Award 1 mark for two correct numbers.	Numbers must be in the correct order for the mark(s).	
11(b)	Sphere	1			
12(a)	$\frac{2}{21}$	1			
12(b)	$\frac{5}{12}$ final answer	2	Award 1 mark for $\frac{2}{5} \times \frac{25}{24}$ or $\frac{10}{25} \div \frac{24}{25}$	1 mark implied by $\frac{10}{24}$ or equivalent.	
13	Correct explanation, e.g. • 400 × 60 is 24 000 so 222 000 is too large • The answer has one too many zeros • 370 × 60 is 22 200	1			
14	4 and 22	1		Accept any clear indication.	
15	(-7, -4)	1			

Question	Answer	Marks	Part Marks	Guidance
16	4+1+5+8=18 which is divisible by 3 or $4+1+5+8=18$ and $1+8=9$ which is divisible by 3	1		A divisibility test must be used, do not accept a division calculation alone.
	and			
	4158 is a multiple of 2 or equivalent.			Or equivalent, e.g. 4158 is even, can be divided by 2 etc.
17(a)	Image drawn with coordinates $(1, -3)$, $(5, -3)$ and $(2, -5)$.	1		Accept slight inaccuracies provided the intention is clear.
17(b)	Image drawn with coordinates $(-1, -3)$, $(-1, 1)$ and $(-3, -2)$.	2	Award 1 mark for shape drawn with correct size and orientation but wrong position or for rotation 90° clockwise around $(3, -1)$.	Accept slight inaccuracies provided the intention is clear.
18(a)	Rectangle or rhombus or parallelogram	1		
18(b)	Kite	1		Accept isosceles trapezium.

Question		,	Answer		Marks	Part Marks	Guidance
19(a)	320 280 240 South African rand (ZAR) 160 120 80 40		6 8 10 Dollars(S)	12 14 16	2	Award 1 mark for two correct plots seen or implied.	For 2 marks, line should extend at least as far as $x = 16$ Accuracy on line $\pm \frac{1}{2}$ small square at $(0, 0)$ and $(10, 160)$. Implied by, e.g. a short correct line.
19(b)	(y =) 16x				1		
20	0.04 and 1.04				1		Both correct in the correct order for the mark.
							Accept equivalent fractions, e.g. $\frac{1}{25}$ and
							$1\frac{1}{25}$
21		Red	Blue		2		Accept table headings interchanged vertically and horizontally with values correct for the order of the headings.
	Two doors	12	13			Award 1 mark for all four headings correctly placed.	Correct for the order of the headings.
	Four doors	15	30				
	or equivale	ent correct	table.				

Question	Answer	Marks	Part Marks	Guidance
22	0.248 (<i>l</i>)	3	Award 1 mark for 1.24 and	For 1 mark, accept equivalent, e.g. 1240 m <i>l</i>
			Award 1 mark for $1.24 \div 5$ or their $1.24 \div 5$	For 1 mark, accept equivalent, e.g. 1240 ÷ 5 ÷ 1000
				Do not accept <i>their</i> 1.24 = 1.56
23	$\frac{13}{60}$ or equivalent fraction	3	Award 2 marks for $\frac{20}{60} + \frac{24}{60} + \frac{3}{60}$ or better	For 2 marks, accept correct equivalent fractions with a common denominator.
			or for $\frac{57}{60} - \left(\frac{20}{60} + \frac{24}{60}\right)$	
			Award 1 mark for $1 - \left(\frac{1}{3} + \frac{2}{5} + \frac{1}{20}\right)$	
			for sight of $\frac{19}{20}$ or $\frac{11}{15}$ or equivalent fractions.	Or equivalent, e.g. $\frac{57}{60}$ or $\frac{44}{60}$
24(a)	0.00482	1		
24(b)	$\frac{14}{15}$	1		Accept equivalent fractions.

Question	Answer	Marks	Part Marks	Guidance
25	A description that includes • Flip the coin many times.	3	Award 1 mark for each correct statement, accept equivalents.	If a number is stated it must be at least 20 trials.
	Record the number of heads.			Accept record the results or equivalent.
	Divide the number of heads by the number of trials.			Accept equivalents, e.g. write as a fraction with the number of heads over the number of flips or calculate the relative frequency (of heads).