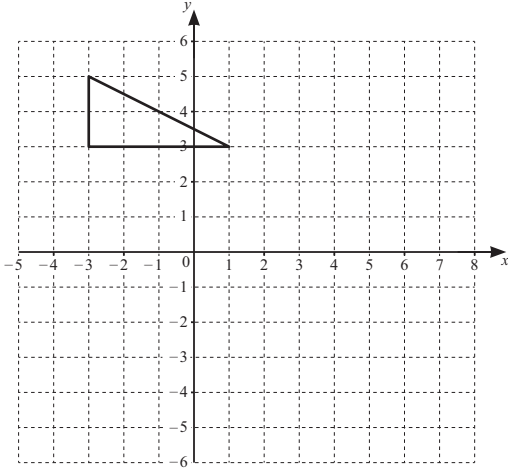
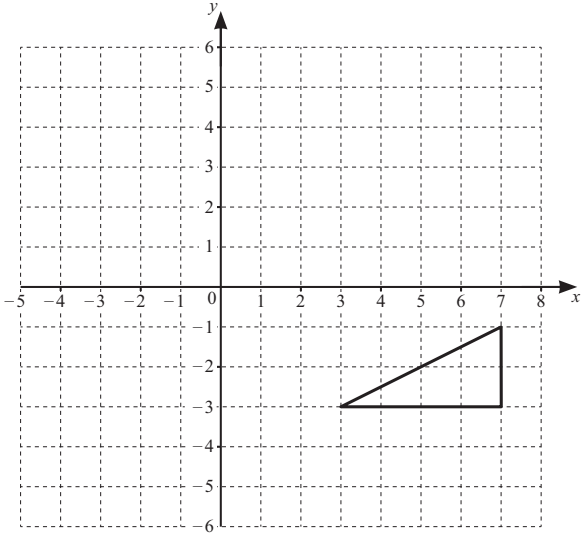


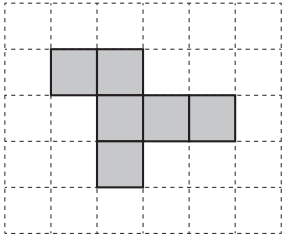
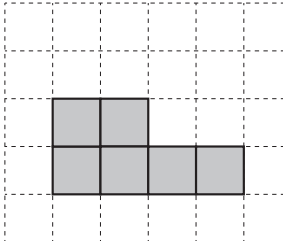
Cambridge Lower Secondary Sample Test
For use with curriculum published in
September 2020

Mathematics Paper 2
Mark Scheme
Stage 7

Question	Answer	Mark	Part Marks	Guidance
1	200	2	Award 1 mark for attempt to list multiples at least three of each or for correct prime factorisation of both numbers, e.g. factor tree, $25 = 5 \times 5$, $40 = 2 \times 2 \times 2 \times 5$	
2(a)	C	1		
2(b)	pink	1		
3(a)	34 (km)	1		
3(b)	20 (minutes)	1		
3(c)	11:00 and 11:30	1		
4	$4a - b$ final answer	1		Accept $4a - 1b$
5(a)	$x + 5$	1		
5(b)	26	2	Award 1 mark for $x + x + 5 = 47$ or for $x + \text{their (a)} = 47$ or for finding 21	For follow through 1 mark, <i>their</i> (a) must be an expression in terms of x
6(a)	4.1	1		
6(b)	12.10	1		Do not accept 12.1
7(a)	$28 - 8x$	1		
7(b)	$(x) = 17$	2	Award 1 mark for $3x = 44 + 7$ or $3x = 51$	
8(a)	A (H) K D W (I)	1		

Question	Answer	Mark	Part Marks	Guidance
8(b)	square	1		
9(a)	12	1		
9(b)	11	1		
9(c)	10.85	2	Award 1 mark for $9 \times 2 + 10 \times 7 + 11 \times 3 + 12 \times 8$ or equivalent.	1 mark implied by 217
10	$y = 3$ $x = -5$ $x = y$ $-2 = y$ $10 = x$	1		

Question	Answer	Mark	Part Marks	Guidance
11(a)		1		
11(b)		2	Award 1 mark for triangle drawn with correct size and orientation but wrong position.	

Question	Answer	Mark	Part Marks	Guidance
12	$\frac{125}{2}$	1		
13	$4n$ or equivalent	1		
14	$(x =) 71$ $(y =) 109$ $(z =) 62$	3	Award 1 mark for each correct answer.	
15	$x > -2$	1		
16(a)		1		Accept in any orientation. Accept outline only shown, individual cubes not required.
16(b)		1		Accept in any orientation. Accept outline only shown, individual cubes not required.
17(a)	April and \$40	1		
17(b)	$\frac{3}{4}$	1		
17(c)	160 (%)	2	Award 1 mark for $\frac{80}{50}$ or equivalent.	

Question	Answer	Mark	Part Marks	Guidance
18(a)	$\frac{3}{10}$	1		
18(b)	$\frac{1}{5}$	3	<p>Award 2 marks for $\frac{15}{75}$ or equivalent unsimplified fraction</p> <p>or</p> <p>Award 1 mark for $\frac{3}{10} \times 250$</p> <p>or <i>their</i> $\frac{3}{10} \times 250$</p>	Implied by 75
19(a)	There is no mode.	1		Accept correct equivalent explanations.
19(b)	The team has an extreme value (therefore the mean won't be representative).	1		<p>Accept correct equivalent explanations.</p> <p>Accept incorrect interpretation of 45 as the worst time as long as the impact of the extreme value is clear.</p>
20	Pack of 4 tins selected and 0.45 and 0.48(3...) shown	3	<p>Award 2 marks for two comparable values shown and wrong/no selection</p> <p>or</p> <p>Award 1 mark for $2.90 \div 6$ or $1.80 \div 4$ ($\times 6$) or 0.49×6 or equivalent.</p>	<p>Accept Pack of 4 with 1.96 and 1.93(3..) shown or</p> <p>Pack of 4 with 2.94 and 2.7(0) shown.</p> <p>Accept equivalent values in cents.</p>

Question	Answer	Mark	Part Marks	Guidance
21(a)	Ticks not correct and gives correct reason e.g. <ul style="list-style-type: none"> It should be a square number plus 1 It should be 101 tiles 	1		
21(b)	7	2	Award 1 mark for 147 seen or for $8^2 + 1$ and $9^2 + 1$	Implied by 65 and 82