
MATHEMATICS

0845/01

Paper 1

October 2015

MARK SCHEME

Maximum Mark: 40

IMPORTANT NOTICE

Mark Schemes have been issued on the basis of **one** copy per Assistant examiner and two copies per Team Leader.

This document consists of **10** printed pages.

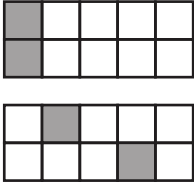


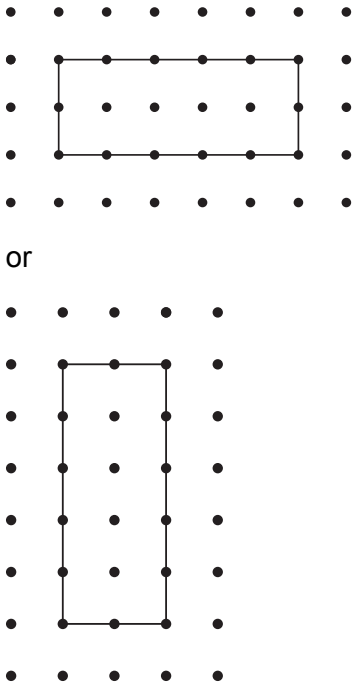
Question number	1		
Part	Mark	Answer	Further Information
(a)	1	33	
(b)	1	350	
Total	2		

Question number	2		
Part	Mark	Answer	Further Information
	1	152	
Total	1		

Question number	3		
Part	Mark	Answer	Further Information
(a)	1	3760	
(b)	1	480	
Total	2		

Question number	4		
Part	Mark	Answer	Further Information
	1	Saturday	Allow clear abbreviations.
Total	1		

Question number	5		
Part	Mark	Answer	Further Information
	1	Accept any 2 squares shaded, for example: 	Accept shading equivalent to 2 whole squares if part squares are used.
Total	1		

Question number	6		
Part	Mark	Answer	Further Information
(a)	1	Draws a rectangle 5 cm by 2 cm, e.g. 	Do not accept rectangles whose vertices are not dots on the grid. Do not accept diagonal lines.
(b)	1	14 (cm)	Follow through from (a) provided the sides of the rectangle are horizontal and vertical, no diagonals.
Total	2		

Question number	7		
Part	Mark	Answer	Further Information
	1	1.62 (m)	
Total	1		

Question number	8																	
Part	Mark	Answer	Further Information															
(a)	1	<table border="1"> <thead> <tr> <th>Shoe colour</th> <th>Tally</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td>Black</td> <td> </td> <td>7</td> </tr> <tr> <td>Blue</td> <td> </td> <td>5</td> </tr> <tr> <td>Brown</td> <td> </td> <td>4</td> </tr> <tr> <td>White</td> <td> </td> <td>2</td> </tr> </tbody> </table>	Shoe colour	Tally	Frequency	Black		7	Blue		5	Brown		4	White		2	
Shoe colour	Tally	Frequency																
Black		7																
Blue		5																
Brown		4																
White		2																
(b)	1	Black																
Total	2																	

Question number	9		
Part	Mark	Answer	Further Information
	1	210	
Total	1		

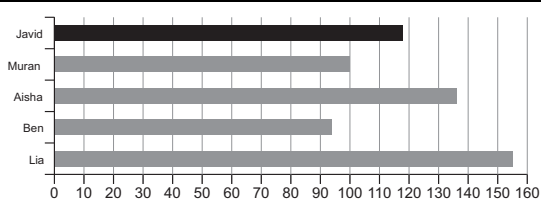
Question number	10		
Part	Mark	Answer	Further Information
(a)	1	4 (blocks)	
(b)	1	65 (cm)	
Total	2		

Question number	11		
Part	Mark	Answer	Further Information
	1	2×12 3×8 4×6	
Total	1		

Question number	12		
Part	Mark	Answer	Further Information
(a)	1	2600	
(b)	1	3570	
Total	2		

Question number	13		
Part	Mark	Answer	Further Information
	1	3981	
Total	1		

Question number	14		
Part	Mark	Answer	Further Information
	1	-3	
Total	1		

Question number	15														
Part	Mark	Answer	Further Information												
(a)	1	 <table border="1"> <thead> <tr> <th>Individual</th> <th>Score</th> </tr> </thead> <tbody> <tr> <td>Javid</td> <td>115</td> </tr> <tr> <td>Muran</td> <td>100</td> </tr> <tr> <td>Aisha</td> <td>135</td> </tr> <tr> <td>Ben</td> <td>90</td> </tr> <tr> <td>Lia</td> <td>155</td> </tr> </tbody> </table>	Individual	Score	Javid	115	Muran	100	Aisha	135	Ben	90	Lia	155	
Individual	Score														
Javid	115														
Muran	100														
Aisha	135														
Ben	90														
Lia	155														
(b)	1	118													
Total	2														

Question number	16		
Part	Mark	Answer	Further Information
(a)	1	60°	
(b)	1	isosceles	
Total	2		

Question number	17		
Part	Mark	Answer	Further Information
	1	1477	
Total	1		

Question number	18		
Part	Mark	Answer	Further Information
(a)	1	38.4	
(b)	1	768	
Total	2		

Question number	19		
Part	Mark	Answer	Further Information
(a)	1	18 000	
(b)	1	1.8	
Total	2		

Question number	20		
Part	Mark	Answer	Further Information
(a)	1	2 hundreds 2 tens 2 units 2 tenths 2 hundredths	
(b)	1	5 thousands	
Total	2		

Question number	21		
Part	Mark	Answer	Further Information
	1	5 + 10 (cm) 6 + 9 (cm) 7 + 8 (cm)	in any order
Total	1		

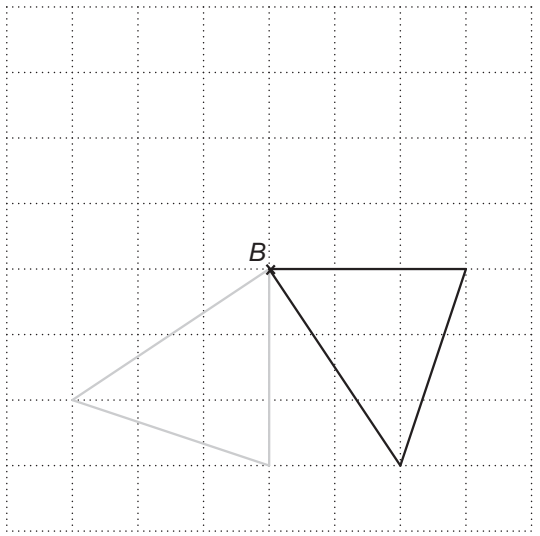
Question number	22		
Part	Mark	Answer	Further Information
	1	5.40 or 05.4	
Total	1		

Question number	23		
Part	Mark	Answer	Further Information
(a)	1	3	
(b)	1	<p>An explanation that compares the frequency of a 2 occurring with the frequency of each of the other numbers occurring, for example:</p> <ul style="list-style-type: none"> • There is only one 2 and there are more ones and threes • 2 is the least common number • There are more ones and threes than twos. <p>or</p> <p>An explanation that refers to the probability of 2 occurring, for example:</p> <ul style="list-style-type: none"> • probability of 2 is only $\frac{1}{8}$ 	
Total	2		

Question number	24		
Part	Mark	Answer	Further Information
	1	15(°C)	
Total	1		

Question number	25		
Part	Mark	Answer	Further Information
	2	14 (beads)	Award 1 mark for: Showing 35 split into groups of 5 (3 large and 2 small beads). or Gives the answer 21 (number of large beads required).
Total	2		

Question number	26		
Part	Mark	Answer	Further Information
	1	An example of 2 square numbers with an even total. The square numbers must both be odd or both be even, for example $1 + 1 = 2$ $4 + 16 = 20$	The correct calculation must be shown for the award of the mark.
Total	1		

Question number	27		
Part	Mark	Answer	Further Information
	1		
Total	1		