
MATHEMATICS

0845/02

Paper 2

April 2016

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 **9** printed pages and **1** blank page.



Question number	1			
Part	Mark	Answer	Further Information	
	1	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		
Total	1			

Question number	2			
Part	Mark	Answer	Further Information	
	1	60 cm <input type="checkbox"/> 43 cm 54 cm <input type="checkbox"/> 26 cm 87 cm		
Total	1			

Question number	3			
Part	Mark	Answer	Further Information	
(a)	1	324		
(b)	1	24		
Total	2			

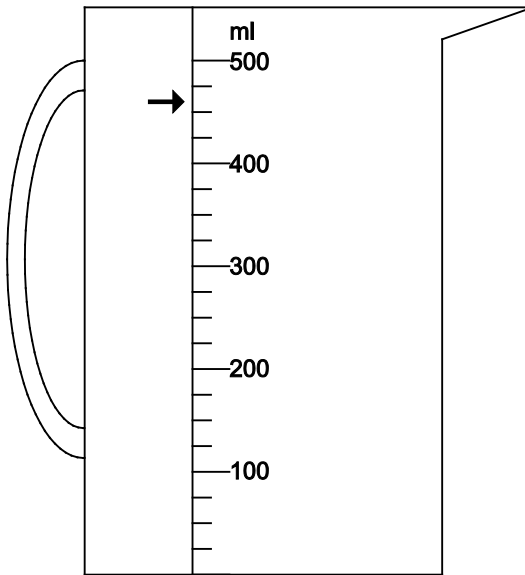
Question number	4			
Part	Mark	Answer	Further Information	
(a)	1	35 (cups)		
(b)	1	40 (cups)		
Total	2			

Question number	5		
Part	Mark	Answer	Further Information
	1	12 (m)	
Total	1		

Question number	6		
Part	Mark	Answer	Further Information
	2	<p> 40 / \ 20 30 / \ / \ 60 10 50 or 40 / \ 30 20 / \ / \ 50 10 60 </p>	<p>Award 1 mark for any two sides correct.</p> <p>or</p> <p>For a complete diagram with 3 sides adding to 120 that uses the same multiple of 10 more than once.</p>
Total	2		

Question number	7		
Part	Mark	Answer	Further Information
	1	$\frac{3}{4}$ (cake)	Accept 0.75 or any equivalent.
Total	1		

Question number	8		
Part	Mark	Answer	Further Information
	1	7.4 + 2.6 or 7.6 + 2.4	Numbers can be in either order.
Total	1		

Question number	9		
Part	Mark	Answer	Further Information
	1		Accept an arrow in the range 450 ml to 475 ml, closer to 450 ml.
Total	1		

Question number	10														
Part	Mark	Answer	Further Information												
	1	<table border="1"> <thead> <tr> <th></th> <th>True</th> <th>Not true</th> </tr> </thead> <tbody> <tr> <td>odd + odd = odd</td> <td></td> <td>✓</td> </tr> <tr> <td>even – odd = even</td> <td></td> <td>✓</td> </tr> <tr> <td>odd × even = even</td> <td>✓</td> <td></td> </tr> </tbody> </table>		True	Not true	odd + odd = odd		✓	even – odd = even		✓	odd × even = even	✓		
	True	Not true													
odd + odd = odd		✓													
even – odd = even		✓													
odd × even = even	✓														
Total	1														

Question number	11		
Part	Mark	Answer	Further Information
	1	Sharifa has 68 (balloons) Kimi has 17 (balloons) Neera has 17 (balloons)	
Total	1		

Question number	12		
Part	Mark	Answer	Further Information
	2	A with the following answers: Area of $A = 28 \text{ cm}^2$ Area of $B = 24 \text{ cm}^2$ Area of $C = 27 \text{ cm}^2$ Ignore omission of units, but if units are used they must be correct.	Award 1 mark for three correct answers without a choice. or Award 1 mark for three correct methods containing arithmetic errors that leads to a correct follow through choice. or Award 1 mark for correct A , B and C with correct choice of A but incorrect units given. Do not award a mark for a correct choice only.
Total	2		

Question number	13		
Part	Mark	Answer	Further Information
(a)	1	90 (ml)	
(b)	1	3 (scoops)	
Total	2		

Question number	14		
Part	Mark	Answer	Further Information
	1	5 10 18 26 36 42	
Total	1		

Question number	15		
Part	Mark	Answer	Further Information
(a)	1	(a =) 135 (°)	
(b)	1	(b =) 57 (°)	
Total	2		

Question number	16		
Part	Mark	Answer	Further Information
	1	< < >	
Total	1		

Question number	17		
Part	Mark	Answer	Further Information
(a)	1	31.6	
(b)	1	$31\frac{3}{5}$	Accept $31\frac{6}{10}$ Accept correct follow through from <i>their</i> (a)
Total	2		

Question number	18		
Part	Mark	Answer	Further Information
	1	9	
Total	1		

Question number	19		
Part	Mark	Answer	Further Information
(a)	1	16.4×3.3	
(b)	1	$140.643 \div 2.7$	
Total	2		

Question number	20		
Part	Mark	Answer	Further Information
	2	Labels on vertical axis, reading down: 10 000 8000 6000 4000 2000 Labels on the horizontal axis, reading across: 0 – 19 20 – 39 40 – 59 60 – 79 80+	Award 1 mark for each correctly labelled axis. The labels on the horizontal axis must give the whole group label e.g. 0 – 19
Total	2		

Question number	21		
Part	Mark	Answer	Further Information
(a)	1	1 hour 33 minutes or 93 minutes	Do not accept 1.33 or any answer with no units.
(b)	1	10 38 bus	Accept 3 rd bus or 10 : 38 or 1105 at Pentwell.
Total	2		

Question number	22		
Part	Mark	Answer	Further Information
	1	3 and 13	
Total	1		

Question number	23		
Part	Mark	Answer	Further Information
	1	$\boxed{0.63} \times \boxed{10} = \boxed{6.3}$ $\boxed{63} \div \boxed{100} = \boxed{0.63}$	
Total	1		

Question number	24		
Part	Mark	Answer	Further Information
	1	70 and 80	Numbers can be written in any order
Total	1		

Question number	25		
Part	Mark	Answer	Further Information
(a)	1	A and C	Either order
(b)	1	B	
Total	2		

Question number	26		
Part	Mark	Answer	Further Information
(a)	1	1 and 3 and 6 and 10 or triangle numbers	
(b)	1	21	
Total	2		

Question number	27		
Part	Mark	Answer	Further Information
	2	110 and 130 and 150 with no extras	Accept for 1 mark any two of the three correct answers with no more than one extra.
Total	2		