PSLE Mathematics (Standard)

Answer Key

Paper 1

Booklet A (20 marks)

Questions 1 to 10: 1 mark each

Questions 11 to 15: 2 marks each

1.	2	6.	4	11.	3
2.	2	7.	3	12.	3
3.	1	8.	3	13.	1
4.	3	9.	4	14.	4
5.	2	10.	1	15.	1

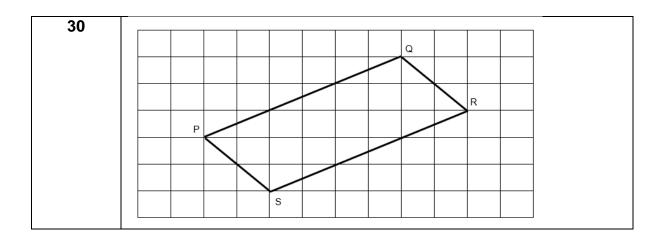
Booklet B

Question 16 to 20 : 1 mark each

Questions 21 to 30: 2 marks each

Question	Answer
16	17
17	25
18	0.375
19	62
20	
	Y
21	32 x 3 = 96 [M1] 10 + 11 = 21 96 - 21 = 75 [A1]
22	6-4=2 $(24+0) \div 2 = 12$ $12 \times 6 = 72$ [M1A1]

23	$\frac{2}{5}H = \frac{3}{4}T$						
	15 _						
	$H = \frac{15}{8} T$						
	Total mass, $\frac{15}{8}$ T + T = $\frac{23}{8}$ T [M1]						
	Henry's mass = $\frac{15}{8} \div \frac{23}{8} = \frac{15}{23}$ [A1]						
	Or $\frac{2}{5}H = \frac{3}{4}T$						
	$\begin{bmatrix} 5 & 1 & 4 \\ \frac{2 \times 3}{5 \times 3} & 1 & \frac{3 \times 2}{4 \times 2} & 1 \end{bmatrix}$						
	$\begin{bmatrix} 5 \times 3 & 4 \times 2 \\ 6 & 6 \end{bmatrix}$						
	$\frac{6}{15}$ H = $\frac{6}{8}$ T [M1]						
	Hence, H = 15u, T = 8u $\frac{15}{15+8} = \frac{15}{23} [A1]$						
	15+8 - 23 [7]						
24	4u = \$52						
	1u = \$13 [M1] 5u = \$65 [A1]						
25	$320 \times 0.6 = 192$						
00	192 X 0.25 = 48 [M1A1]						
26	3w + 3w + 8 = 80 6w = 72 [M1]						
	w = 12						
27	3w = 36 [A1]						
21	B G+R G R						
	2u (x7) 3u (x7)						
	7p (x3) 4p (x3) 3p (x3) [M1]						
	14b 21b 12b 9b						
	14:9 [A1]						
28	$\frac{1}{2}$ x 16 x 16 = 128 cm ² [M1A1]						
29	(a) True						
	(b) Not possible to tell						

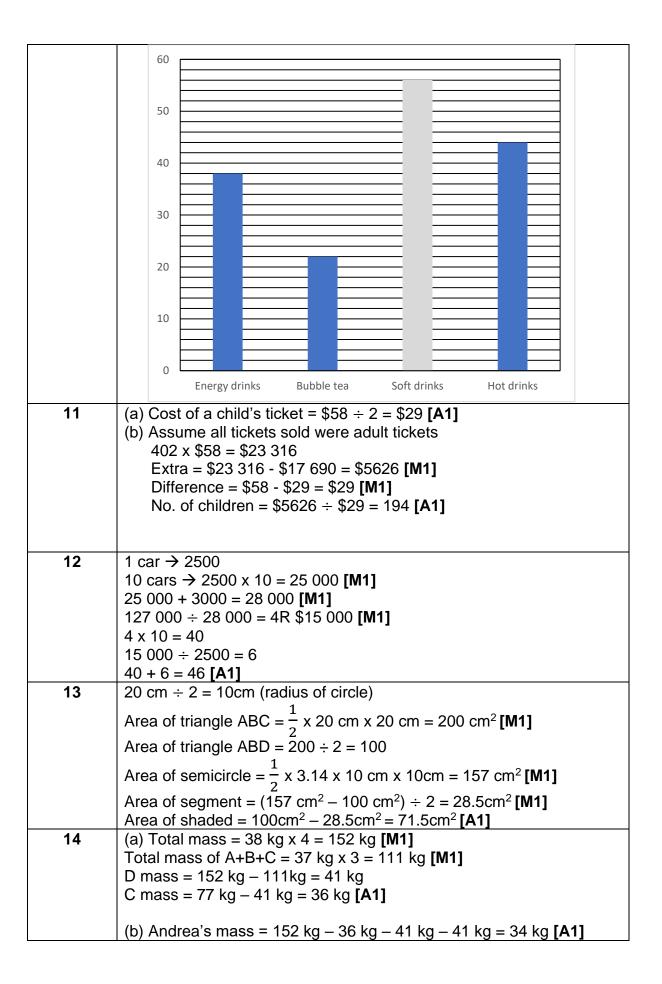


Paper 2

Questions 1 to 5 : 2 marks each

Question	Answer					
1	44 = 1 x 44, 2 x 22, 4 x 11					
-	88 = 1 x 88, 2 x 44, 4 x 22, 8 x 11					
	Common factors are 1, 2, 4, 11, 22 and 44 [M1]					
	- Common raciona ara 1, 2, 1, 11, 22 and 11 [m1]					
	6 [A1]					
2	100 % - 15 % = 85%					
	Shaded area: Area of figure					
	15 : 85+15+85 [M1]					
	15 : 185					
	3 : 37 [A1]					
3	180° – 25° – 113° = 42°					
	$180^{\circ} - 115^{\circ} = 65^{\circ}$					
	$180^{\circ} - 42^{\circ} - 65^{\circ} = 73^{\circ}$ [M1]					
	73° [A1]					
4	$8 \times 3 = 24$ [M1]					
	$24 \div 2 = 12$					
	12 - 8 = 4 [A1]					
5	Fig 1: 1 x 1 = 1					
	Fig 2: 2 x 2 = 4					
	Fig 3: 3 x 3 = 9					
	Hence,					
	Figure 13: 13 X 13 = 169 [M1A1]					
6	$\frac{3}{2} + \frac{1}{2} = \frac{2}{2}$					
	3 3 3					
	$x 2: 4u \rightarrow \frac{1}{3}$ [M1]					
	3 1 1 1					
	$8u \rightarrow \frac{2}{3}$					
	3					

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8u - 3u = 5u
         5u → $750 [M1]
         1 u → $150
         3u → $450 [A1]
         \frac{\mathbf{Or}}{\frac{1}{3} \div \frac{4}{7} = \frac{7}{12} \text{ (Remainder) [M1]}
         5u → $750 [M1]
         1 u → $150
         3u → $450 [A1]
         (a) 24 \times 60 \times 60 = 86400
7
             86400 \times 2ml = 172800ml = 172.8 \mid [M1A1]
         (b) 0.20 \times 172.8 = $34.56[A1]
8
         3.2km = 3200m
         3200m \div 25m = 128 [M1]
         128 + 1 = 129 [M1]
         129 \times $55 = $7095 [A1]
9
         (a) x + (x + 4) + x + (x + 6) + (x - 3) = 5x + 7 [A1]
         (b) Wire left = 105 - 5x - 7 OR
                                                        5 \times 14 + 7 = 77
                                                105 - 77 = 28 [M1]
                    = 98 - 5x
         98 - 5 \times 14 = 28 [M1A1]
10
         (a) 44 - 38 = 6 [A1]
         (b) 100% - 35% = 65%
             38 + 22 + 44 = 104 [M1]
             65% → 104
             35\% \rightarrow \frac{104}{65} \times 35 = 56 [A1]
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4.5	7 1 10
15	(a) $\frac{7}{8} - \frac{1}{12} = \frac{19}{24}$ [M1]
	$\frac{19}{24} \div \frac{1}{6} = \frac{114}{24} = 4\frac{3}{4}$ [M1]
	Ans is 4 [A1]
	(b) $\frac{3}{4} \times \frac{1}{6} = \frac{1}{8} \ell$ [A1]
16	(a) Store A 100% → 144 [M1]
	Store B $96\% \rightarrow 144$ $100\% \rightarrow \frac{144}{96} \times 100$
	Ans: \$150 [A1]
	(c) Store B 150 - 112.50 = 37.50 37.50 ÷ 150 x 100% = 25% [M1]
	Store A $100\% \rightarrow 144$ $25\% \rightarrow \frac{144}{100} \times 25$ [M1] Ans: \$36 [A1]
17	(a) LCM of (12, 15) = $2 \times 2 \times 3 \times 5 = 60$ [M1] No of packs of hotdogs = $\frac{60}{15} \times 6 = 24$ [A1]
	(b) No of packs Mrs Rahmah bought = $\frac{84}{12}$ x 4 = 28 [M1]
	No of pies = 28 x 8 = 224 224 - 20 = 204 (No of pies left for Mrs Rahmah) 204 - 88 = 116 (No of pies Mrs Ong had left) 116 - 20 = 96 [M1]
	No of packs Mrs Ong bought = $\frac{96}{8}$ = 12 [A1]