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

Booklet B

Question 16 to 20 : 1 mark each

Questions 21 to 30: 2 marks each

Question	Answer
16	$3 + \frac{3}{10} + \frac{215}{1000}$ = 3.515
17	68 – 12 ÷ 2 + 13 = 75
18	210
19	0.125
20	8 a.m.
21	250 g – 100 g = 150 g 150 g ÷ 50 g = 3 Amount paid = \$5 + 3(\$2) = **\$11**
22	∠AEB = 65° ∠ABE = 180° - 65° - 65° = 50° ∠CBE = 90° - 50° = 40° ∠BCE = (190° - 40°) ÷ 2 = **75°**
23	**Point E**
24	103 – 3 x 9 - $\frac{18}{3}$ = **70**
25	Volume = 10 x 3 x 3 = **90 cm^3**
26	Total stamps bought = 24*z* Stamps left after giving her friends = 24*z* – 27 Stamps in each box = $\frac{\mathbf{24z - 25}}{\mathbf{7}}$

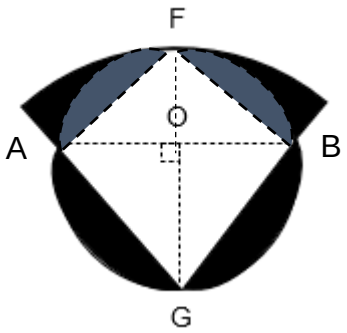
27	12u – 10u = 2u $50 ÷ 2 = $25 $25 x 12 = **$300**
28	Largest possible number of women = least number of men 1 group of people = 4 people (W M M M) Number of groups – 115 ÷ 4 = 28R3 → last group has 1 less M (W M M) Largest possible number of women = 28 + 1 = **29**
29	At first, total = 5u Total left = 2u 5u = 2u +21(5) 3u = 105 1u - **35**
30	$\frac{\text{Watches sold by B}}{\text{Total sold}} = \frac{26u}{24u+26u+18u+30u}$ $= \frac{26}{98}$ $= \mathbf{\frac{13}{49}}$

Paper 2

Questions 1 to 5 : 2 marks each

Question	Answer
1	3 stools + 5 desks → $360 6 stools + 10 desks → $720 5 desks → $900 - $720 = $180 1 desk → **$40**
2	2u = 44 1u = 22 7u = **154**
3	180° - (52° x 2) = 76° 52° + 76° = **128°**
4	(13 x $10) + (2 x $5) = $140 140 – 75 = 75 65 ÷ 5 = **13**
5	800 + 1600 = 2400 2400mℓ = **2.4ℓ**
6	(a) 100% - 15% - 30% - 25% = **30%** (b) Percentage of students in Brownies = $\frac{2}{5}$ x 30% = 12% Number of students in Brownies = $\frac{12}{100}$ x 300 = **36**

7	Total volume = (24 x 20 x 14) + 85 x 14 x (42 – 24) = 28 140cm^3 = 28.14 ℓ ÷ 2.01 = **14 min**
8	(a) 250 + 190 = 420 1680 ÷ 420 = 4 hour 8am → **12pm** (b) Train X = **920 km** Train Y = **760 km**
9	No of soccer balls added = 40% x 45 = 18 No of netballs added = 25% x 68 = 17 No of basketballs added = 80 – 18 – 17 = 45 Percentage increase = $\frac{45}{30}$ x 100% = **150%**
10	Time taken for Tammy = 20 ÷ 30 = 40 min Time taken for Adam = 40 + 15 = 55 min = $\frac{11}{12}$ hour Distance = 42 x $\frac{11}{12}$ = **38.5 km**
11	(a) 180 – 68 = 112° (b) 180 – 68 – 42 = 70° (c) 180 – 70 = 110°
12	2120 – 536 = 1584 $\frac{3}{4}$ of girls = 9u Total girls = 12u 12u + 4u = 1584 1u = 1584 ÷ 16 = 99 5u = 99 x 5 = **495**
13	(a) A : B : C 4 : 2 : 1 20 : 10 : 5 20 + 10 + 5 = 35 35u : 7.35 1u : 0.21 $\frac{4}{5}$: 20 $\frac{1}{5}$: 5 0.21 x 5 = **1.05 ℓ**

	(b) 2.1 ÷ 4 = 0.525 1.05 – 0.525 = **0.525 ℓ**
14	(a) 6 x 2 + 1 = **13** (b) 99 – 1 = 98 98 ÷ 2 = **49**
15	Shaded area = big quadrant – unshaded AFBG $= \frac{1}{5} \times \pi \times r^2$ $= \frac{1}{5} \times 3.14 \times (24)^2$ $= 452.16\ cm^2$ Area of AFBG = 24 x 12 $= 288\ cm^2$ Area of shaded part $= 452.16\ cm^2 - 288\ cm^2$ = **$164.16\ cm^2$** 
16	(a) \$6120 - \$3240 = \$2880 \$2880 ÷ 2 = \$1440 \$1440 + \$3240 = **\$4680** (b) \$4680 ÷ 4 = \$1170 \$1440 – \$1170 = \$270 \$270 ÷ 15 = **18**
17	(a) Total units = 4 x 3 = 12u Fraction Abu had in the end = $\frac{1}{12}$ (b) <u>Before</u> A : B : C : D = 1u : 5u : 3u : 3u <u>After Bob gave Cheryl</u> A : B : C : D = 1u : 4u : 4u : 3u = 2u : 8u : 8u : 6u <u>After Cherly gave Donna</u> A : B : C : D = 2u : 8u : 5u - \$55 : 9u + \$55 = 2u : 8u : 8u : 6u 9u + \$55 = \$595 9u =\$540 1u = \$60 24u = \$60 x 24 = **\$1440**