PSLE Mathematics (Standard)

Answer Key

Paper 1

Booklet A

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

Booklet B

16. $\frac{3}{8}$

17. 26

18. 18 km/h

19. 1.9 m

20. 8 h 10 min

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21. (a) $\frac{3}{4} \times \frac{4}{5} = \mathbf{\frac{3}{5}}$ **[A1]**

(b) $\frac{3}{5} \rightarrow 15$

$\frac{1}{5} \rightarrow 15 \div 3 = 5$

$\frac{5}{5} \rightarrow 5 \times 5 =$ **25 [A1]**

22. **6 and 9 [A2]**

23. $325.8 \div (199 + 1) = 1.629$ **[M1]**

$1.629 \approx$ **1.6** **[A1]**

24. $35 \div 5 = 7$
$32 \div 5 = 6.4$
$30 \div 5 = 6$
$7 \times 6 \times 6 =$ **252** **[M1A1]**

25. 0.8 x 1625 = 1300 **[M1]**

1.07 x 1300 = **1391** **[A1]**

26. Length of EF = $\sqrt{25}$ = 5

Base of right-angled triangle = 2

Height of right-angled triangle = 7

Area of XYZ = 2 x ($\frac{1}{2}$ x 2 x 7) = **14 cm^2 [M1A1]**

27.

	Mat	Minah
Before	5u	2u
Change	- 38	+ 43
After	1p	1p

5u - 38 = 2u + 43
5u – 2u = 43 + 38
3u = 81
1u = 27
2u = 27 x 2 = **54 [M1A1]**

28. No of visitors of Friday = 1500
64% → 1500
No of visitors on Thursday = 100% → $\frac{1500}{64} \times 100$ = **2500 [M1A1]**

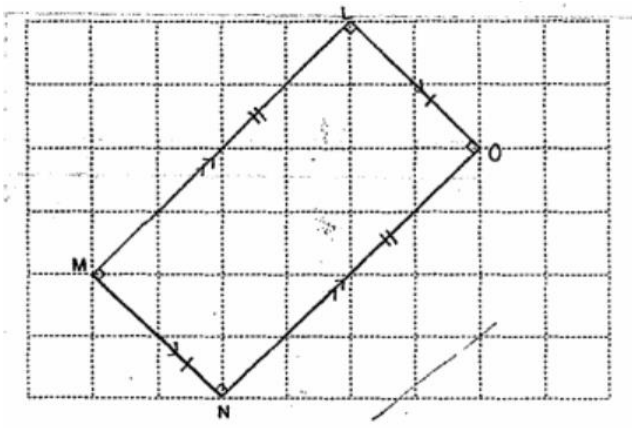
29. ½ x 3.14 x 6 = 9.42

½ x 3.14 x 4 = 6.28

½ x 3.14 x 8 = 12.56

12.56 + 6.28 + 9.42 = **28.26 cm [M1A1]**

30. **[A2]**



Paper 2

1. L : F = 1 : 3

   5u → 345 + 15 = 360

   1u → 72

   2u → **144 [M1A1]**

2. 2 dresses → $14.50 + $8.50 = 23

   1 dress → **$11.50 [M1A1]**

3. 53 x 5 = 265

   49 x 6 = 294 [M1]

   294 - 265 = **29 [A1]**

4. **7 [M1A1]**

5. a + b + c = 360 - 65 = **295° [M1A1]**

6. New salary → $\frac{4500}{100} \times 110$ = $4950 [M1]

   Wife + save → $4950 - $1500 = $3450

   Wife → $\frac{3450}{100}$ x 20 = **$690 [M1A1]**

7. Juice No. X Value = Total value

   Lemon 2 X value = 6u

   Apple 5 X value = 10u

   10u - 6u = 4u

   4u → $12 [M1]

   Total → $\frac{12}{4}$ x (10 + 6) = **$48 [M1A1]**

8. Area of big circle = π x 30 x 30 = 2826 [M1}

   Radius of each small circle = 30 ÷ 3 = 10

   Area of 7 small circles = 7 x (π x 10 x 10) = 2198 [M1]

   Area of shaded region = 2826 – 2198 = **628 cm^2 [A1]**

9. 420 – 80 – 80 – 60 - 60 = 140

140 ÷ 2 = 70

100 x 70 = 7000 [M1]

½ x 80 x 60 = 2400 [M1]

2400 x 2 = 4800

7000 + 4800= **11800 cm^2 [A1]**

10.

	W	P
Before	33 + 15u	15u
Sold	11 + 5u	12u
Left	22 + 10u	3u

10u + 22 – 3u = 57

7u = 35 **[M1]**

1u = 35 ÷ 7 = 5

15u = 5 x 15 = **75 [M1A1]**

11. (a) A : B

3 : 11

9 : 33

+1 -1

10 : 32

5 : 16 [A1] OR any equivalent ratio

(b)

	A	**B**	**Diff**	**A**	**B**	**Diff**
Before	3u (x3)	11u (x3)	8u(x3) →	9b	33b	24b
Change				-6b	-6b	
After	1p (x3)	9p (x3)	8p (x3) →	3b	27b	24b

24u – 264 [M1]

1u – 11

10u - 10 x 11 = **$110 [M1A1]**

12. (a) 82 - (8 x 2) = 66cm

Length of paper = (66 – 15 - 15) ÷ 2 = **18cm [M1A1]**

(b) Area of paper = (18 x 15) cm^2 = 270cm^2

Area of 2 cut out = (15 - 7) x (18 - 13) + 8 x (15 – 7 - 3)

= 8 x 5 + 40

= 80

270cm^2 - 80cm^2 = **190cm^2[M1A1]**

13. (a) 60 x 3 = 180

180 + 10 = **190 km [M1A1]**

(b) 190 ÷ $3\frac{1}{2}$ ≈ **54 km/h [M1A1]**

14. (a) $1 - \frac{6}{12} - \frac{3}{12} - \frac{2}{12} = \mathbf{\frac{1}{12}}$ **[M1A1]**

(b) 50% →1470

25% →1470 ÷ 2 = **735[M1A1]**

15. (a) 12+1 = 13

13 x 13 = **169 [M1A1]**

(b)

Figure	Number of sticks
1	2 x 1 x 2 = 4
2	2 x 2 x 3 = 12
3	2 x 3 x 4 = 24
4	2 x 4 x 5 = 40
n	2 x n x (n + 1)

Ans: For Figure 14, No of Sticks = 2 x 14 x 15 = **420 [M1A1]**

16. (a) 800 - 500 = 300

300 x 20 = 6000

60 x 18 x 35 = 37800 **[M1]**

37800 - 6000 = 31800

31800 ÷ 1000 = **31.80 ℓ [M1A1]**

(b) $\sqrt[3]{64000}$ = 40

40 x 40 = 1600

800 x 20= 16 000

16000 ÷ 40 ÷ 40 = **10 cm [M1A1]**

17. 8400-3480 = 4920

4920 ÷ 2 = 2460 (laptop money collected)

2460 + 3480 = 5940 (ipad money collected) [M1]

5940 ÷ 4 = 1485 [M1]

2460 – 1485 = 975 [M1]

975 ÷ 325 = **3 [M1A1]**