

**PSLE STANDARD MATHEMATICS**

**PAPER 1**

**(45 marks)**

**Booklet A (20 marks)**

**Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Write your answer (1, 2, 3 or 4) in the brackets provided. All diagrams in this paper are not drawn to scale unless stated otherwise.**

**The use of calculators is NOT allowed.**

1. Which digit in 78.96 is in the tenths place?

- (1) 6
- (2) 7
- (3) 8
- (4) 9

(     )

2. Which one of the following is the same as 40 kg 70 g?.

- (1) 4 070 g
- (2) 4 700 g
- (3) 40 070 g
- (4) 40 700 g

(     )

3. Which of the following is likely the mass of an oral thermometer?



- (1) 0.13 g
- (2) 1.3 g
- (3) 13 g
- (4) 130 g

(     )

4. Jeffrey paid \$2.50 for 50 stamps. How much does each stamp cost?

- (1) 5 ¢
- (2) 2 ¢
- (3) 20 ¢
- (4) 50 ¢

( )

5. Express  $4\frac{1}{20}$  as a decimal.

- (1) 4.05
- (2) 4.1
- (3) 4.12
- (4) 4.5

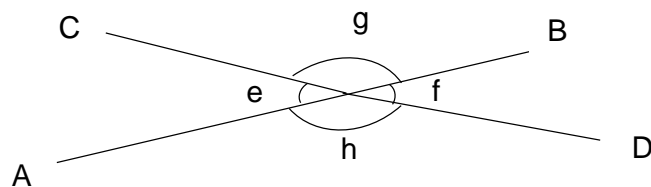
( )

6. Simplify  $5y + 10 - 4y - 8$

- (1)  $y + 2$
- (2)  $y + 18$
- (3)  $9y + 2$
- (4)  $9y + 18$

( )

7. AB is a straight line.



Which of the following is true?

- (1)  $\angle f + \angle g = 180^\circ$
- (2)  $\angle g + \angle e = 180^\circ$
- (3)  $\angle e = \angle f$
- (4)  $\angle g = \angle h$

( )

8. Which of the following fractions is smaller than  $\frac{1}{4}$  ?

(1)  $\frac{9}{25}$

(2)  $\frac{7}{12}$

(3)  $\frac{6}{9}$

(4)  $\frac{7}{11}$

( )

9. Arrange these distances from shortest to longest.

2 km 305 m	2.35 km	$2\frac{3}{5}$ km
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Shortest

Longest

(1)  $2\frac{3}{5}$  km , 2.35 km , 2 km 305 m

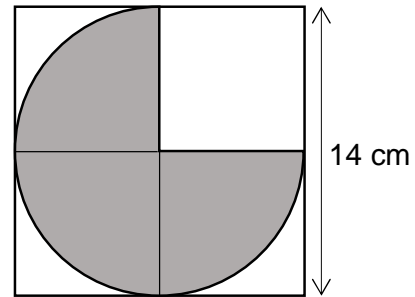
(2) 2.35 km ,  $2\frac{3}{5}$  km , 2 km 305 m

(3)  $2\frac{3}{5}$  km , 2 km 305 m , 2.35 km

(4) 2 km 305 m , 2.35 km ,  $2\frac{3}{5}$  km

( )

10. The figure is formed by a square, a semi-circle and a quarter-circle. What is the area of the shaded part? Take  $\pi = \frac{22}{7}$ .



- (1)  $33 \text{ cm}^2$   
 (2)  $38.5 \text{ cm}^2$   
 (3)  $115.5 \text{ cm}^2$   
 (4)  $154 \text{ cm}^2$

( )

11. Jaime found an online recipe to make cupcakes.

<b><u>Cupcake Recipe</u></b>	
(makes 9 pieces)	
Flour:	150 g
Butter:	100 g
Sugar:	50 g

She has  $\frac{1}{2}$  kg of flour, 420 g of butter and 110 g of sugar. What is the greatest number of pieces of cupcakes she can make?

- (1) 18  
 (2) 27  
 (3) 36  
 (4) 81

( )

12. Angela found the following types of coins in her bag.

Types of coins	Number of coins
5 ¢	2
10 ¢	1
20 ¢	2
50 ¢	1
\$1	1

She took out 3 coins from her bag and gave it to her brother. Which one of the following amounts could **not** be the amount taken out of her bag?

- (1) \$1.25
- (2) \$0.90
- (3) \$0.75
- (4) \$0.55

( )

13. At a school canteen, each table has either 3 or 5 chairs around it. The number of tables to the number of chairs is 7 : 25. What is the number of tables with 5 chairs to that with 3 chairs?

- (1) 5 : 2
- (2) 2 : 5
- (3) 3 : 4
- (4) 4 : 3

( )

14. A concert would be played at theatre this weekend. Tickets are sold at \$8 each. There will be a \$2 discount for every purchase of 4 tickets. What is the percentage discount for the purchase of 10 tickets?

- (1) 5%
- (2) 10%
- (3) 20%
- (4) 25%

( )

15. John borrowed a book from the library and it was overdue when he returned it. The payment for the overdue book was based on the charges shown below.

<b>First 7 days</b>	20 ¢ per day
<b>After the first 7 days</b>	40 ¢ per day

How many days overdue if he had to pay \$3.80 of overdue charges?

- (1) 6
- (2) 9
- (3) 13
- (4) 16

( )

**Booklet B: (25 marks)**

**Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. The use of calculators is NOT allowed.**

**(5 marks)**

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16. Find the value of  $1065 - 97$ .

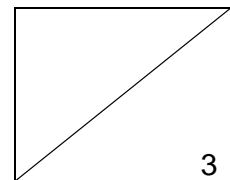
Ans: \_\_\_\_\_

17. Find the value of  $4 \div \frac{3}{5}$ .

Ans: \_\_\_\_\_

18. Write down all the common multiples of 6 and 8 that are smaller than 50.

Ans: \_\_\_\_\_

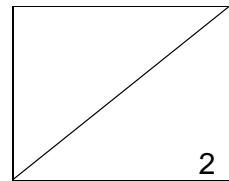


19. What is the value of  $\frac{7k+6}{3}$  when  $k = 9$ ?

Ans: \_\_\_\_\_

20. Veronica bought a blouse. She gave the cashier a \$50 note. The cashier did not have any coins as small change so Veronica gave her another 30 cents and received a \$10 note as change. What was the cost of the blouse?

Ans: \$ \_\_\_\_\_





Questions 21 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. The use of calculators is NOT allowed.

(20 marks)

21. What is the value of  $3 \div 7$ ? Give your answer as a decimal, correct to 1 decimal point.

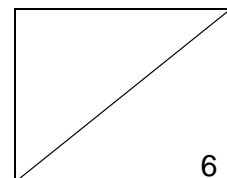
Ans: \_\_\_\_\_

22. Maria is 46 kg. She is 400 g heavier than her sister. What is the sister's mass in kg?

Ans: \_\_\_\_\_

23. Mrs Lee donated some books to a class. These books were shared among 40 students at first. When 10 of them gave up their share of the books, the rest received 2 extra books each. How many books did each student get at first?

Ans: \_\_\_\_\_  $\text{cm}^2$



24. The table shows the cost for printing photographs in a shop.

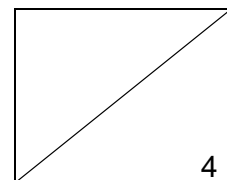
For the first two 5R photographs	\$3 each
Subsequent 5R photographs	\$2 each

Kimberly printed some 5R photographs. She paid a total of \$30 for the 5R photographs. How many photographs did she print?

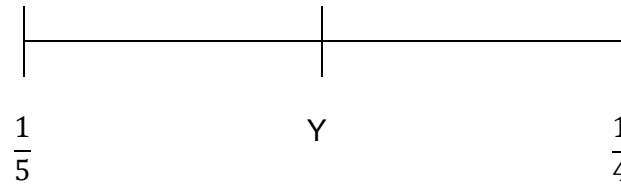
Ans: \_\_\_\_\_

25. Jenny baked some muffins. She sold  $\frac{3}{4}$  of the muffins to her neighbours and ate  $\frac{1}{6}$  of the remaining muffins. He was left with 35 muffins. How many muffins did he bake?

Ans: \_\_\_\_\_



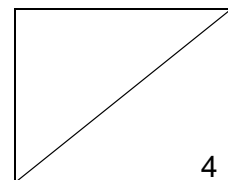
26. The number line below is marked at equal intervals. What is the value of Y. Give your answer as a fraction in its simplest form.



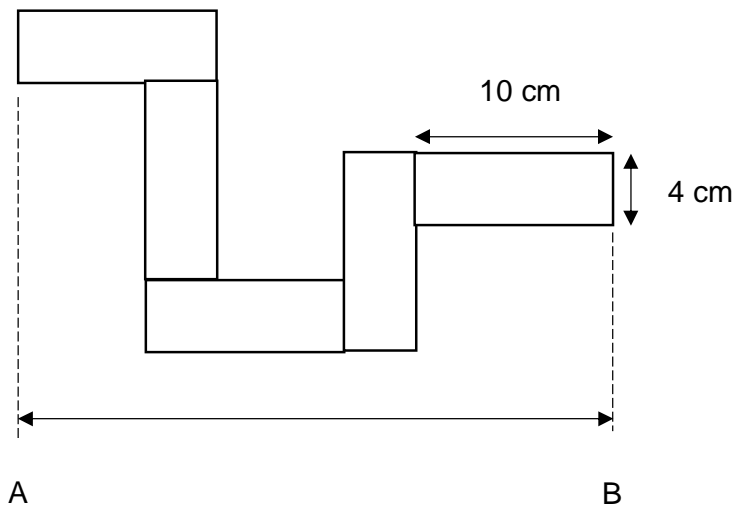
Ans: \_\_\_\_\_

27. Bob wants to save some of money. He deposits \$8 200 in a bank for one year. The interest rate is 2% per year. What is the total amount of money he will have in the bank at the end of the year.

Ans: \_\_\_\_\_ kg



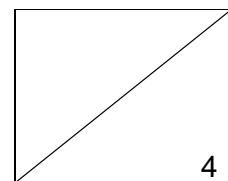
28. The figure below is made of 5 identical rectangle. There is no overlap. Each rectangle measures 10 cm by 4 cm. What is the length of line AB?



Ans: \_\_\_\_\_ cm

29. Siti went to the supermarket. She bought some apples, bananas and cherries. The ratio of the number of apples to the number of bananas was 8 : 11. There were 36 more cherries than apples and 12 more cherries than bananas. How many bananas did Siti buy?

Ans: \_\_\_\_\_



30. Black and white squares are used to form figures that follow a pattern. The first three figures are shown below.

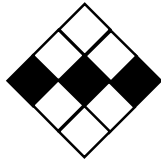


Figure 1

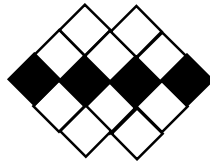


Figure 2

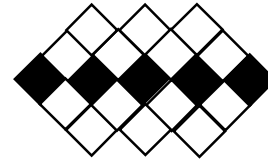


Figure 3

How many white squares are used to form Figure 20?

Ans: \_\_\_\_\_

