



PSLE Revision Paper 1

Mathematics

Total Time : 2 h 30 mins
Paper 1- Booklet A And Booklet B: 50 mins
Paper 2: 1 h 40 mins

INSTRUCTIONS TO CANDIDATES

Do not open this Booklet until you are told to do so.
Follow all instructions carefully.
Answer all questions.

Name: _____

Class: _____

Date: _____

TOTAL SCORE

8. Simplify $13 - 9a + 5 + 8a$.

- (1) $18 - a$ (2) $8 + a$
 (3) $18 + a$ (4) $8 - a$

9. Express $2\frac{1}{3}h$ as a ratio of $3.5h$.

- (1) 1:2 (2) 2:3
 (3) 5:6 (4) 13:15

10. The table below shows the parking rate in Sunshine shopping mall.

Parking Rate	
First hour	\$2.50
Every additional half hour or part thereof	\$0.80

If Mr Lee parked his car at the mall from 11.15 a.m to 2.30 p.m, how much will his parking charges be?

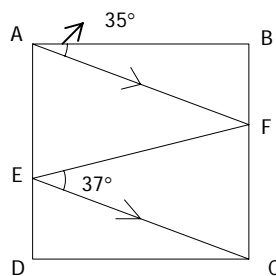
- (1) \$3.30 (2) \$6.50
 (3) \$5.70 (4) \$7.30

11. The radius of a circle is π . What is the perimeter of this circle?

- (1) 2π (2) $1/2\pi$
 (3) $2\pi^2$ (4) $1/2\pi^2$

12. ABCD is a square and AF is // to EC. $\angle BAF$ is 35° and $\angle CEF$ is 37° . Find $\angle AEF$.

- (1) 45° (2) 88°
 (3) 73° (4) 102°

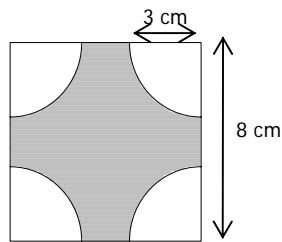


13. The distance between Town A and Town B is 235km. A car started traveling from Town A to Town B at 8 a.m with a speed of 80km/h. Some time later, a van moves off from Town B to Town A at 50km/h. If they passed each other at 10 a.m, what time did the van start its journey?

- (1) 9:30 a.m (2) 7.00 a.m
(3) 9.00 a.m (4) 8:30 a.m

14. This figure is made up of 4 quadrants of the same radius and a square. Find the perimeter of the shaded part. (Take $\pi = 3.14$)

- (1) 18.15 cm (2) 26.84 cm
(3) 22.02 cm (4) 9.16 cm



15. In Lisa's sewing box, $\frac{2}{5}$ of her buttons are red while the rest are blue. Among the red buttons, $\frac{1}{3}$ of them are round in shape while the rest of the red buttons are square. Find the ratio of the number of square red buttons to the total number of blue buttons.

- (1) 1:2 (2) 2:3
(3) 5:6 (4) 4:9

Booklet B

Questions 16 to 25 carry 1 mark each. Show your working clearly and write your answers in the space provided. For questions which require units, give your answers in the units stated. Calculators cannot be used in this section.

(10 marks)

-
16. Randy is a car agent. He receives a fixed salary each month. He also receives a commission of \$0.05 for every \$5 of sales he makes. In a 5-month period, the total value of the cars he sold was \$240 000. If his total earnings for this period was \$12500, find his monthly salary.

Ans: \$ _____

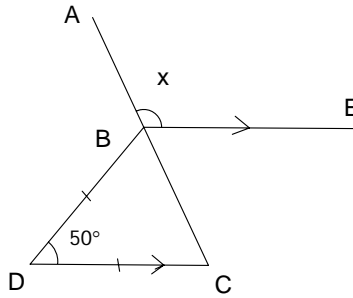
17. The base of the fish tank is a rectangle with a perimeter of 240 cm. If its length, breadth and height of the fish tank are in the ratio of 5:3:6, find its volume.

Ans: _____ cm³

18. 5 dozen square tiles are used to form the perimeter of a square room which has the same number of tiles on each side. How many tiles are there on each side of the room?

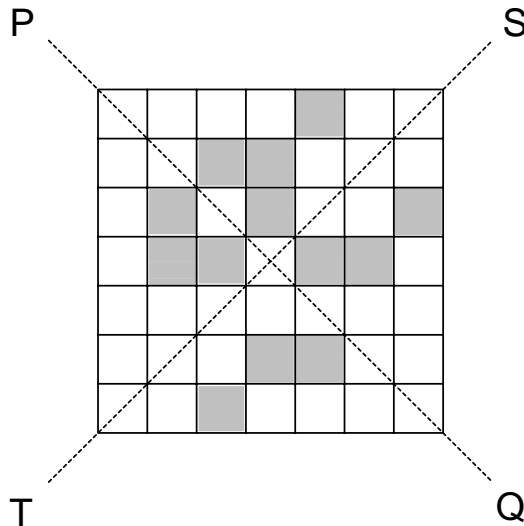
Ans: _____

19. ABC is a straight line. $\angle x =$ _____



Ans: _____°

20. Shade 3 squares so that the figure is symmetrical along lines PQ and ST.



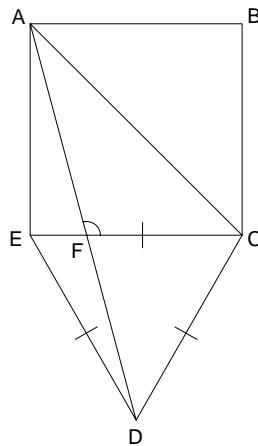
21. Mr Tan sold k papayas at \$1 each and p honeydews at \$4 each. He made \$68.
Find the cost price of the fruits in terms of k and p .

Ans: \$ _____

22. Each wheel of a car has a radius of 21 cm. How many metres will the car travel when the wheels make 400 revolutions each? Give your answer in metres. (Take $\pi = \frac{22}{7}$)

Ans: _____ m

23. The figure below is not drawn to scale. $ABCE$ is a square and CDE is an equilateral triangle.
Find $\angle AFC$.



Ans: _____°

24. A ruler and 2 pencils cost \$2.50. 2 rulers and 3 pencils cost \$4.15. How much would 3 rulers and 6 pencils cost?

Ans: \$ _____

25. 103 lanterns were hung at an equal distance apart in a row. The distance between the first and the last lantern is 306m. What is the distance between the 16th and the 57th lantern?

Ans: _____ m

Questions 26 to 30 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

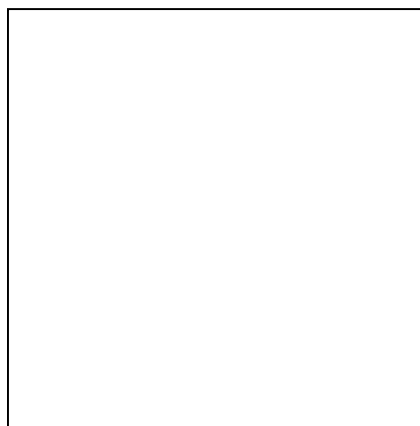
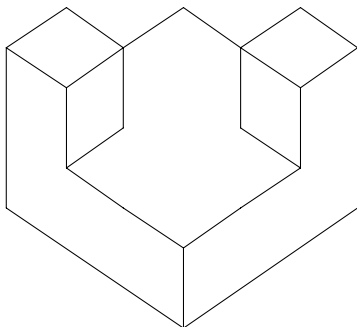
26. If Amy is 1.25 times as old as Betty and their total age is 36, how old will Betty be in 7 years' time?

Ans: _____

27. Yesterday, Eva had a total of 535 red and blue beads. This morning, she took $\frac{2}{9}$ of her red beads to exchange for 41 blue beads. As a result, she now has an equal number of red and blue beads. How many blue beads had she yesterday?

Ans: _____

28. Sketch the top view of the solid figure in the box beside it.



29. Henry had 20% more game cards than Tom. Ray had 40% fewer game cards than Henry. When Ray bought 384 more game cards, he realised that he had twice as many game cards as Tom. How many game cards did they have altogether at first?

Ans: _____

30. 21 calculators and some pens cost \$589. Each calculator costs \$25 more than a pen. If there were 2 more calculators than pens, find the cost of 1 such calculator.

Ans: \$ _____

PAPER 2 (1 h 40 mins)

Questions 1 to 5 carries 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which requires units, give your answers in the units stated. Calculators can be used in this section.

(60 marks)

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1. A tank, measuring 17cm by 5cm by 9cm, is one third-filled with water. Twenty metal cubes, each measuring, 2cm by 2cm by 2cm, were then placed into the tank. How much more water must be added to completely fill the tank?

Ans: _____ l

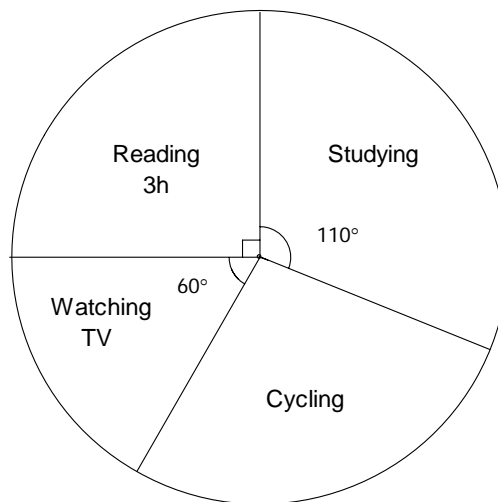
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2. Find the perimeter of a square with side $(9w + 2)$ cm if $w = 4$.

Ans: _____ cm

3. 3 sisters Anna, Brenda and Christine shared to buy a gift for their mother. Anna paid $\frac{2}{5}$ the total amount paid by Brenda and Christine. Anna paid $\frac{3}{4}$ the amount Christine paid. If Christine paid \$9.20 more than Anna, how much money did Brenda pay for the gift?

Ans: \$ _____

4. The pie chart below shows how Caleb distributes his time among the activities he does after school.



If Caleb spends 3 hours reading, how many hours is spent cycling?

Ans: ___h___min

5. Lynn had a total of 150 red and blue hair pins. She gave away $\frac{1}{5}$ of her red hair pins and bought another 46 blue hair pins. After which, the number of blue hair pins she had was half the number of red hair pins. How many more red hair pins than blue hair pins had she at first?

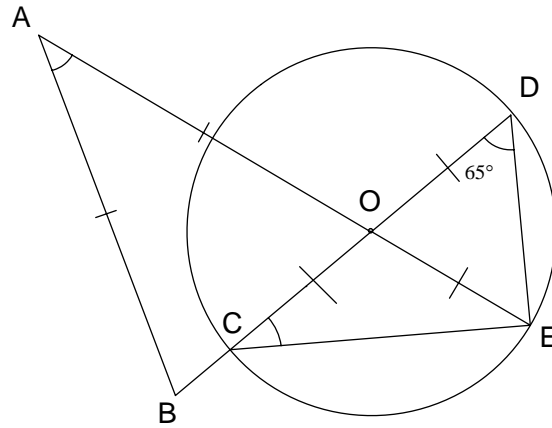
Ans: _____

For question 6 to 18, show your working clearly in the space provided for each question and write your answers in the space provided. The number of marks available is shown in the brackets [] at the end of each question or part question.

6. On Linda's birthday, she gave sweets to every pupil in her class. If she gave each pupil 7 sweets, she would have 4 sweets left. If she gave 2 sweets to each pupil, she would have 189 sweets left. How many pupils were there in Linda's class?

Ans: _____ [3]

7. The figure below is not drawn to scale. O is the centre of the circle. ABO, COE and DOE are isosceles triangles. AOE and BOD are straight lines. Find



- (a) $\angle ECO$
 (b) $\angle BAO$

Ans: (a) _____ [1]

(b) _____ [2]

8. Shane started on his journey from Lanning Park to Rose Gardens at 7.45 am. Halfway through his journey, his car passed Penny's car which was travelling at 82 km/h in the opposite direction. At 9.15 am, Shane reached Rose Gardens while Penny was still 15 km away from Lanning Park.
- (a) What was the distance between the Lanning Park and Rose Gardens?
(b) What was the average speed that Shane was travelling?

Ans: (a) _____ [2]

(b) _____ [2]

9. The pattern below is made up of toothpicks. Study the pattern and complete the table by finding the values of a, b, c, d and e.

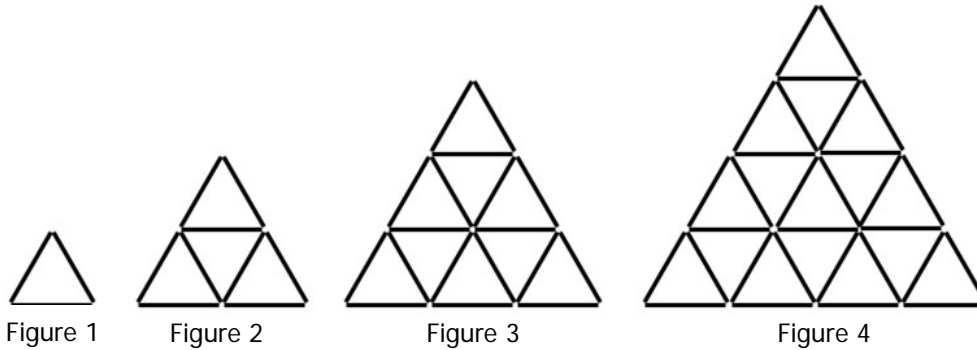


Figure number	1	2	3	4	5	...	12	d
Number of triangles	1	4	9	16	25	...	b	225
Number of toothpicks	3	9	18	30	a	...	c	e

Ans: (a) _____ [1]

(b) _____ [1]

(c) _____ [1]

(d) _____ [1]

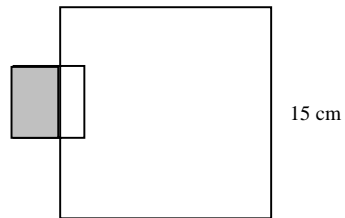
(e) _____ [1]

10. Helen paid \$41.60 for 7 New Year cards and 4 Birthday cards. 3 New Year cards cost as much as 2 Birthday cards.
- (a) Find the cost of a Birthday card.
 - (b) How much change would Helen receive if she paid the cashier \$50 for 12 New Year cards?

Ans: (a) _____ [1]

(b) _____ [2]

11. The figure below is made up of 2 overlapping squares. The ratio of the areas of the 2 squares is 1:9. $\frac{1}{5}$ of the smaller square overlaps the larger square as shown in the figure. Find the area of the shaded part.



Ans: _____ [3]

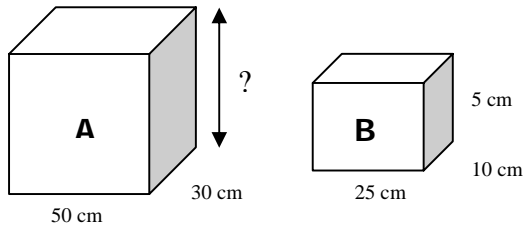
12. Container A has $\frac{3}{5}$ as many apples as Container B. The ratio of the number of apples in Container C to that in Container A is 5 : 7. Container B has 4 200 more apples than Container C.

- (a) What is the number of apples in Container C?
- (b) How many apples must we transfer from Container A to Container B so that Container A will have half the number of apples Container B has?

Ans: (a)_____ [3]

(b)_____ [2]

13. Tank B was filled to the brim with water. The water from Tank B was then transferred to Tank A. 20 such tanks of water were transferred from Tank B to Tank A. There was still a shortage of 5 litres of water to fill Tank A completely. Find the height of Tank A.



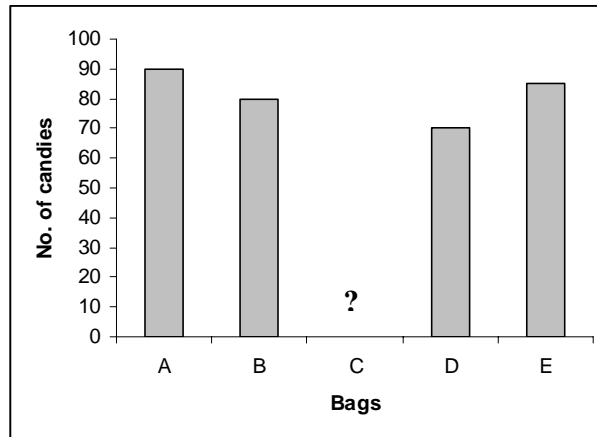
Ans: _____ [4]

14. If Alan gave $\frac{3}{4}$ of his stamps to Ben, Ben would have 6 times as many stamps as Alan. If Ben gave 84 stamps to Alan, Alan would have 6 times as many stamps as Ben.
- (a) How many stamps did Ben have?
 - (b) If each stamp cost \$0.22, how much money did Alan spend on the stamps?

Ans: (a) _____ [2]

(b) _____ [2]

15. The bar graph below shows the number of candies in each of the bags A, B, C, D and E. Study it and answer the following questions.



- (a) The ratio of the number of candies in Bag A to the number of candies in Bag C is 9:7.
How many candies are there in Bag C?
- (b) How many candies are there altogether in the 5 bags?
- (c) What is the ratio of the number of candies in Bag A to the number of candies in Bag E?
- (d) 40% of the candies in the 5 bags are green in colour. The rest of the candies are red. How many red candies are there?

Ans: (a) _____ [1]

(b) _____ [1]

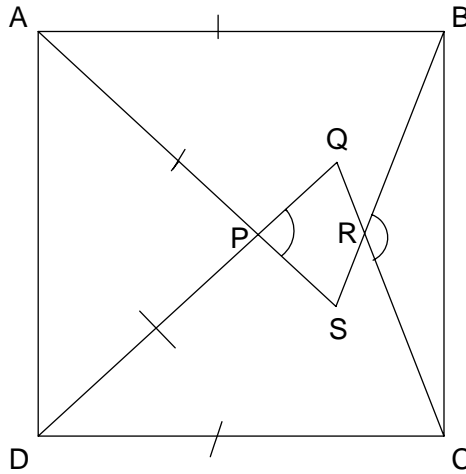
(c) _____ [1]

(d) _____ [1]

16. Rina's age is $\frac{1}{8}$ of her mother's. Her mother will be 55 years old in 7 years' time. In how many years' time will Rina's age be $\frac{2}{5}$ that of her mother's?

Ans: _____ [3]

17. The figure below is made up of a square, $ABCD$ and two isosceles triangles, ABC and CDQ .
 Given that $\angle CDQ = \angle BAS = 47^\circ$, find



- (a) $\angle QPS$
 (b) $\angle BRC$

Ans: (a) _____ [2]

(b) _____ [2]

18. Tina used 2 taps, A and B, to fill an empty rectangular tank with water. On its own, Tap A could fill up an empty tank in 5 hours while Tap B could fill up the same empty tank in 3 hours. Tina first turned on Tap A for 10 minutes to fill in the tank before turning on Tap B. After both taps were left running for another hour, what fraction of the tank was still empty?

Ans: _____ [5]