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. Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet.

(20 marks)

1. What is the value of 7 hundreds + 2 ones + 4 tenths + 6 thousandths?

(S)

      (1)   700.246

      (2)   702.046

      (3)   702.406

      (4)   720.406

*2. Round off 679 953 to the nearest thousand.

(S)

      (1)   679 000

      (2)   678 000

      (3)   680 000

      (4)   689 000

3. Simplify $4x + 3 - x + 5$.

(S)

      (1) $3x + 8$

      (2) $5x - 8$

      (3) $5x + 8$

      (4) $3x + 2$

4. What is the best estimate for the area of a Singapore $2-note?

(S)

      (1) 8.4 cm^2

      (2) 84 cm^2

      (3) 840 cm^2

      (4) 8400 cm^2

*5. How many eighths are there in $2\frac{3}{4}$?

(S)

    (1)   6

    (2)   10

    (3)   11

    (4)   22

6. Samad opens up his stall from 4.30 p.m. to 10.15 p.m. every day. How long is his stall open each day?

(S)

    (1)   5 h 15 min

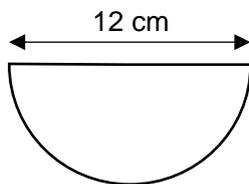   (2)   5 h 45 min

    (3)   6 h 15 min

    (4)   6 h 45 min

*7. Find the ratio of 45 minutes to 2 hours.

(S)

    (1)   45 : 2

    (2)   9 : 40

    (3)   3 : 4

    (4)   3 : 8

8. Find the perimeter of the semi-circle shown below. (Take π = 3.14)
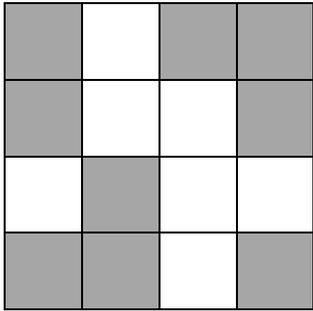
(S)

12 cm

    (1)   18.84 cm

    (2)   30.84 cm

    (3)   37.68 cm

    (4)   49.68 cm

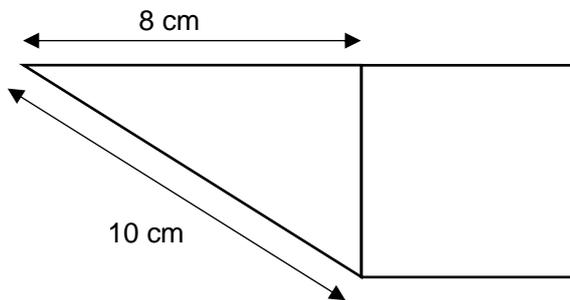***9.** How many more squares must be shaded to make 75% of the figure shaded?

(S)

(1) 1

(2) 2

(3) 3

(4) 4

10. The figure below is made up of a square and a triangle. The perimeter of the figure is 36 cm. Find the length of one side of the square.
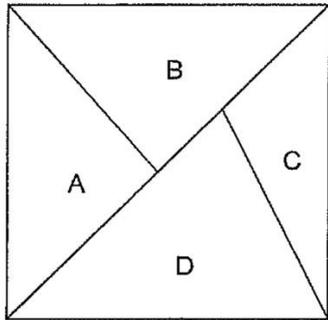
(S)

8 cm

10 cm

(1) 6 cm

(2) 9 cm

(3) 12 cm

(4) 36 cm

*11. The square below is divided with straight lines into 4 parts A, B C and D. The ratio of Area A to Area B is 3 : 4. The ratio of Area B to Area C is 2 : 1. Find the ratio of Area A to Area D.

(M)

(1)   1 : 2

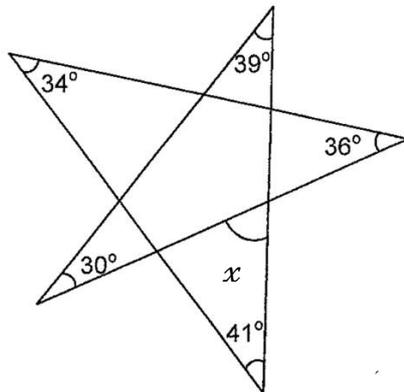(2)   2 : 3

(3)   3 : 5

(4)   3 : 7

*12. Aminah, Balkis and Comel shared a sum of money. Aminah received $\dfrac{1}{5}$ of the sum of money. The ratio of Balkis' share to Comel's share was 3 : 5. If Aminah received $80, how much money did Balkis receive?

(M)

(1) $108

(2) $120

(3) $200

(4) $320

13.
(M)

Find $\angle x$.

(1) 69°

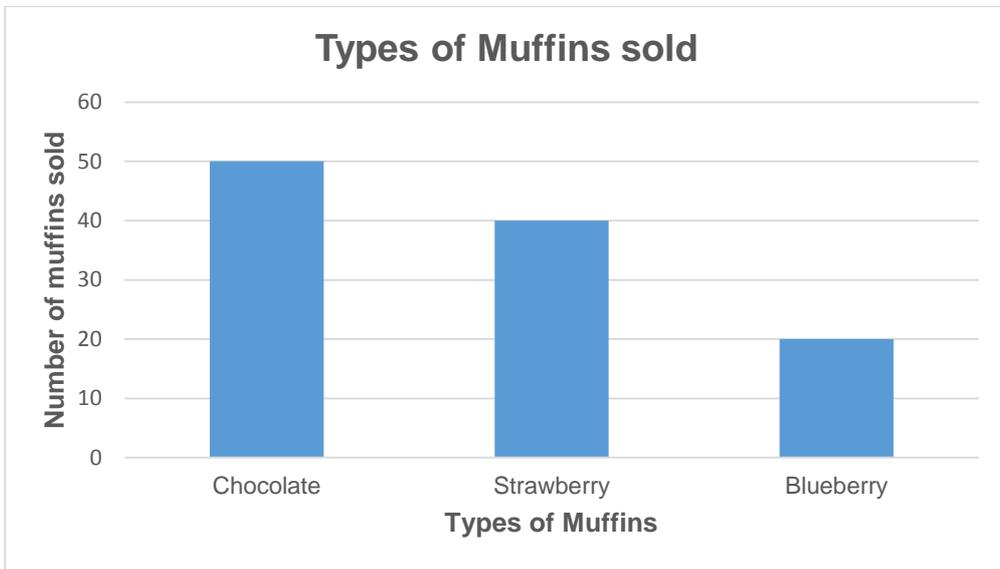(2) 70°

(3) 75°

(4) 80°

*14.

In a class, the ratio of the number of boys to the number of girls is 2 : 3. $\frac{1}{2}$ of the boys and $\frac{1}{4}$ of the girls wear spectacles. What percentage of the pupils in the class wear spectacles?

(M)

(1) 3.5%

(2) 17.5%

(3) 35%

(4) 75%

*15. Madam Salma sold chocolate muffins, strawberry muffins and blueberry muffins. The bar graph below shows the number of muffins she sold in a day.

(M)

The ratio of the price of one chocolate muffin to the price of one strawberry muffin to one blueberry muffin was 2 : 1 : 3.

Madam Salma collected a total of $600 from the sale of the muffins on that day. How much did one strawberry muffin cost?

(1) $1

(2) $2

(3) $3

(4) $5

Questions **16** to **25** carry 1 mark each. Write your answers in the spaces provided. For questions which requires units, give your answers in the units stated.

(10 marks)

16.
Find the value of $\dfrac{3k+4}{8}$ where $k = 12$.

(S)

Answer: _____

*17.
Express $\dfrac{5}{12}$ as a decimal correct to the nearest hundredths.

(S)

Answer: _____

18.
Find the average of $2\dfrac{3}{4}, 1\dfrac{1}{2}, 2\dfrac{5}{8}$.
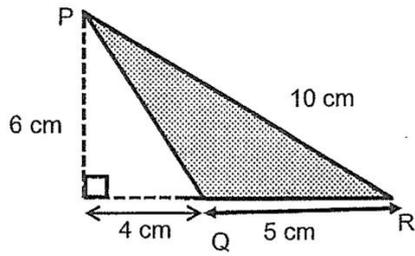
(S)

Answer: _____

*19.
Express $1\dfrac{2}{5}$ as a percentage.

(S)

Answer: _____%

20. Find the area of the shaded triangle PQR below.

(S)

Answer: _____cm^2

*21. Danial pours 15 ℓ of orange juice into some identical empty glasses. Each glass can hold $\dfrac{3}{5}$ ℓ of orange juice. How many glasses does he use?

(S)

Answer: _____

*22. What is the missing number in the box?

(S)

4 : 22 = ☐ : 55

Answer: _____

23. The volume of a cube is 64 cm^3. Find the total surface area of the cube.

(S)

Answer: _____cm^2

8

24. Siti had $4000. She spent 45% of it to buy a laptop. How much money did she have left?

(S)

Answer: $_____

25. Sulaiman has a total of 200 pieces of Lego blocks. 56 of them are green, 48 of them are blue and the rest are red. Write down the ratio of the number of red Lego blocks to the total number of lego blocks.

(S)

Answer: _____

Questions **26** to **30** carry 2 marks each. Show your working clearly in the spaces provided. For questions which require units, give your answers in the units stated.
(10 marks)

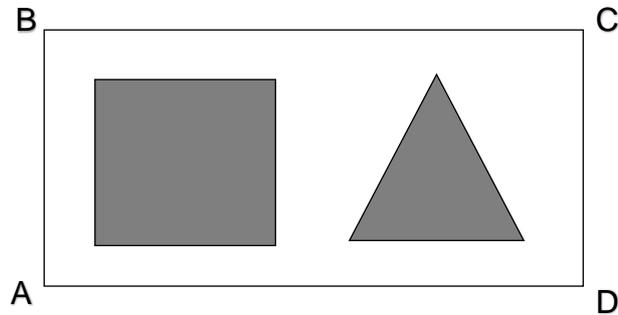***26.**   The table below shows the taxi fare charges by a taxi company.

(M)

Booking Fee	$3.60
First 1 km	$1.00
Every additional 500 m or part thereof	$0.35

Harun travelled a distance of 17.3 km from his house to Sentosa. How much did he pay if he had booked a taxi?

Answer: $_____

*27. In the figure below, the ratio of the area of unshaded part to the area of the shaded part is 7 : 12. The ratio of the area of the shaded square to the area of the shaded triangle is 2 : 1. The area of the shaded square is 80 cm^2. Find the area of Rectangle ABCD.
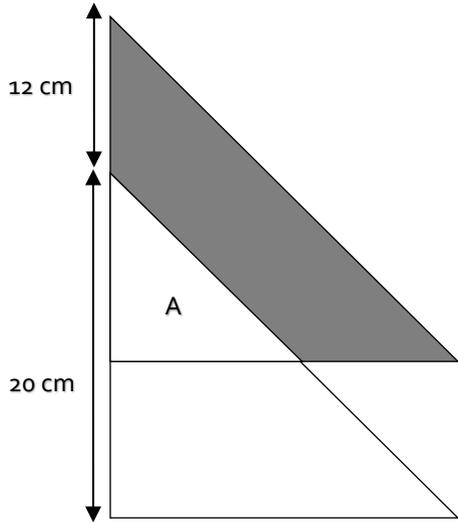
(M)

B   C

A   D

Answer: _____cm^2

*28. Two identical isosceles right-angled triangles overlap each other to form a smaller isosceles triangle A. Find the area of the shaded part.

(M)

12 cm

A

20 cm

Answer: _____cm^2

*29.

Salina baked 352 muffins. $\dfrac{5}{8}$ of the muffins were banana muffins and the rest were chocolate muffins. After she sold an equal number of banana and chocolate muffins, the number of chocolate muffins left was $\dfrac{1}{5}$ of the number of banana muffins left. How many banana muffins did Salina sell?

(M)

Answer: _____

*30. Hamzah placed some cones in a straight line at equal distance from each other. The distance between the third and eighth cone was 105 m. The distance between the second and the last cone was 210 m. How many cones were there?

(M)

Answer: _____

- END OF PAPER 1 -