

Name: _____

PSLE Mock Exam 3 Paper 2 (You can use a calculator)

Questions 1 to 5 carry 2 marks each. (Total 10 marks)

- (1) A box of stickers was shared among Amy, Beatrice and Cathy. Amy had $\frac{2}{5}$ of the stickers in the box. Cathy had 57 less stickers than Amy. The ratio of the number of stickers that Cathy had to the total number of stickers was 1 : 4. Find the number of stickers in the box.

Ans: _____

- (2) The total surface area of a cube is 486cm^2 . What is the length of the cube?

Ans: _____ cm

- (3) John has 80% as much money as Tom. How many more percent of money does Tom have than John?

Ans: _____ %

- (4) Don and Eileen have money in the ratio 4 : 9. After Eileen gave Don \$145, both had equal amounts of money. How much money did Don have at first?

Ans: \$ _____

- (5) Liliane has caught 1456 Dokemon. This was 12% more than the number of Dokemon Darwin caught. How many more Dokemon did Liliane caught than Darwin?

Ans: _____ Dokemon

For questions 6 to 17, show your working clearly in the space provided for each question and write your answer in the space provided.

The number of marks available is shown in the brackets () at the end of each questions or part-questions. (Total 45 marks)

- (6) In a canteen, tables can be arranged in exactly 11 tables per row. If the same number of tables is arranged in rows of 8 tables each, there will be 6 more rows and 3 tables left over. How many tables are there?

Ans _____ tables (3)

- (7) John spent $\frac{1}{5}$ of his money on 4 watermelons and 8 oranges. The cost of a watermelon was 4 times that of an orange. John brought some more watermelons with $\frac{1}{2}$ of his remaining money. How many watermelons did he buy in all?

Ans: _____ watermelons (3)

- (8) Charles started driving at 12.15pm at an average speed of 70km/h. At 12.45pm, Dan started driving along the same road. Dan's speed was 7km/h faster than Charles. At what time would Dan pass Charles?

Ans: _____(3)

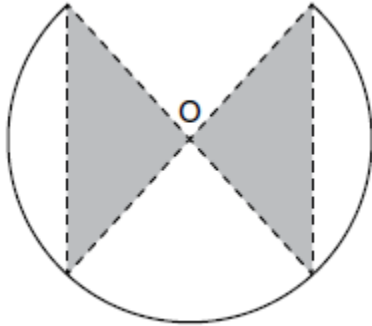
- (9) A watch cost \$3700. Shawn bought the watch during the Great Singapore Sales at a discount but he had to pay 7% GST on the discounted price. Shawn paid a total of \$2573.35 for the watch. What was the percentage discount Shawn received for the watch?

Ans: _____% (3)

- (10) The ratio of Alice's age to Betty's age is 9 : 6. Last year, their average age was 14 years old. How old is Betty now?

Ans : _____years old (3m)

- (11) The figure below shows two identical triangles inscribed in a three-quarter circle with centre O. Given that the area of the total shaded of the triangles is 144cm^2 . Find the area of the unshaded part in three-quarter circle. (Take π to be $\frac{22}{7}$)



Ans: _____ cm^2 (4m)

- (12) A number sequence is shown below
 1, 2, 2, 3, 1, 1, 2, 2, 3, 1, 1, 2, 2, 3, 1,
- (a) What is the sum of the 1st 88 numbers?
 (b) What is the 124th number?

Ans(a)_____ (2m)

Ans(b)_____ (2m)

- (13) The average height of students in a class was 150 cm. 8 new students joined the class and the average height of the students became 140 cm. If the average height of the 8 new students is 125 cm, find the number of students in the class at first.

Ans _____ (4)

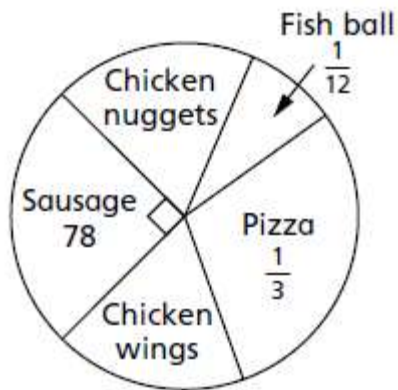
- (14) There are 136 children in a school. $\frac{3}{7}$ of the boys and $\frac{1}{3}$ of the girls wear glasses.

There are 52 children who wear glasses.

- (a) How many girls wear glasses?
(b) How many boys wear glasses?

Ans: (a) _____(2)
(b) _____(2)

(15) The pie chart represents the amount of food at a Children Welfare Party. There is an equal amount of chicken nuggets and chicken wings.



- (a) What fraction of the food are chicken wings?
- (b) How many fish balls are there at the party?

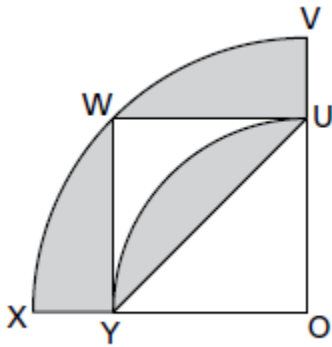
Ans: (a) _____(2)
(b) _____(2)

(16) A rectangular tank measuring 40cm by 30cm by 40cm was $\frac{1}{6}$ filled with water.

At 1330h, Tap A with water flowing out at a rate of 3 ℓ per minute was turned on. At 1332h, Tap B was turned on to drain water out at a fixed rate. At 1343 h, the tank was 75% filled with water. At what time would the tank be filled to the brim?

Ans: _____(5)

- (17) The following figure is made up of a big quadrant OVX and a small quadrant OUY and a square UWYO. The radius of the big quadrant is 20 cm. The ratio of the area of the big quadrant OVX to the area of the small quadrant OUY is 2 : 1. Find the percentage of shaded area of the figure. Give your answer to 2 decimal place. (Take $\pi = 3.14$)



Ans: _____ % (5)

End of Paper 2