

PSLE STANDARD MATHEMATICS

PAPER 2

(55 marks)

Questions 1 to 5 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. You may use an approved calculator.

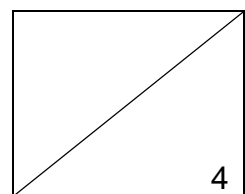
(10 marks)

1. The cost of 3 stools and 5 desks is \$360. The cost of 6 stools and 15 desks is \$900. What is the cost of 1 desk? (Round off the answers to the nearest \$10).

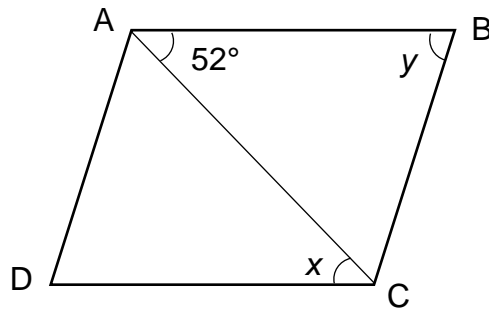
Ans: \$_____

2. A roll of string is cut into three pieces in the ratio of 7 : 2 : 3. The shortest piece is 44 cm. What is the length of the longest piece of the string?

Ans: _____ cm



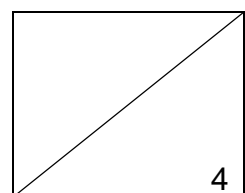
3. ABCD is a rhombus. $\angle BAC = 52^\circ$. What is the sum of $\angle x$ and $\angle y$?



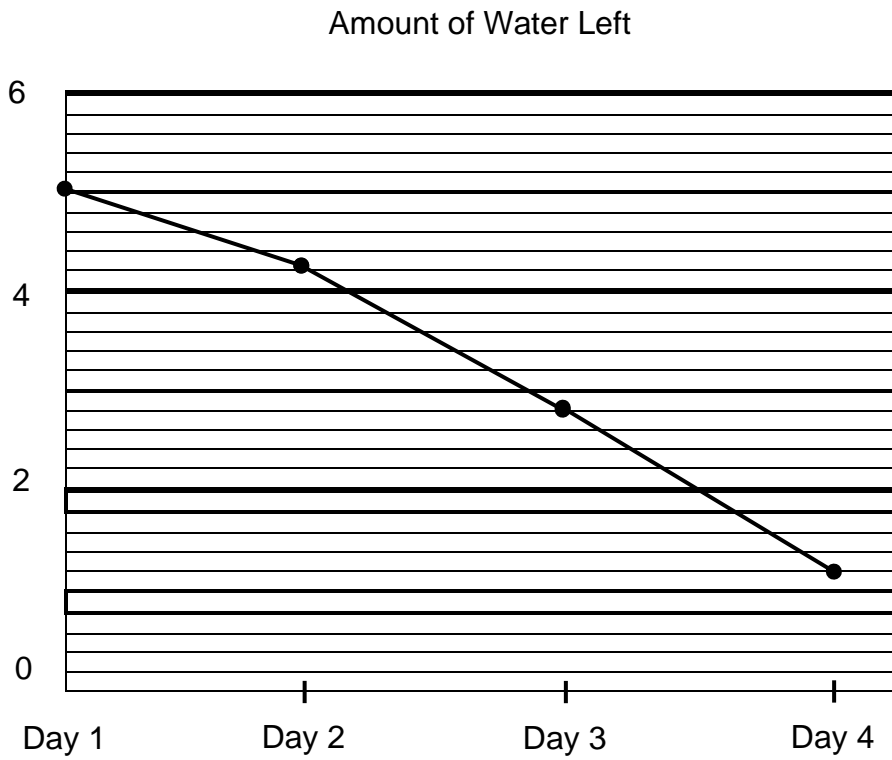
Ans: _____ $^\circ$

4. Mrs Tan bought a dress for \$140. She paid the cashier in \$10 and \$5 notes. If there were fifteen dollar notes altogether, how many \$10 notes were there?

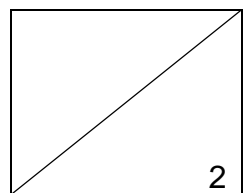
Ans: _____



5. A large tank contained 6ℓ of water. The graph below shows the amount of water left in a tank at the end of each day. What is the total amount of water used on Day 2 and Day 4.



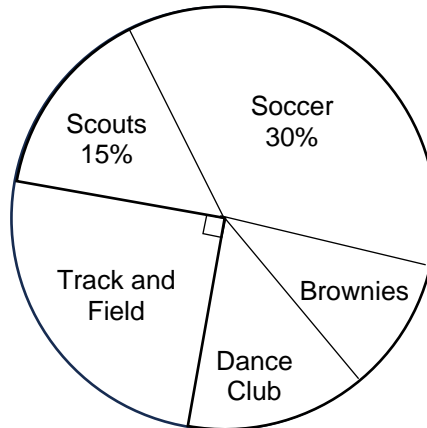
Ans: _____ ℓ



For questions 6 to 17, show your working clearly in the space below each question and write your answers in the spaces provided. The number of marks awarded is shown in brackets [] at the end of each question or part-question.

(45 marks)

6. The pie chart below shows the CCAs of 300 students in Hougang High School.

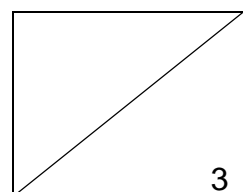


- a) What percentage of the students are in Dance Club and Brownies?

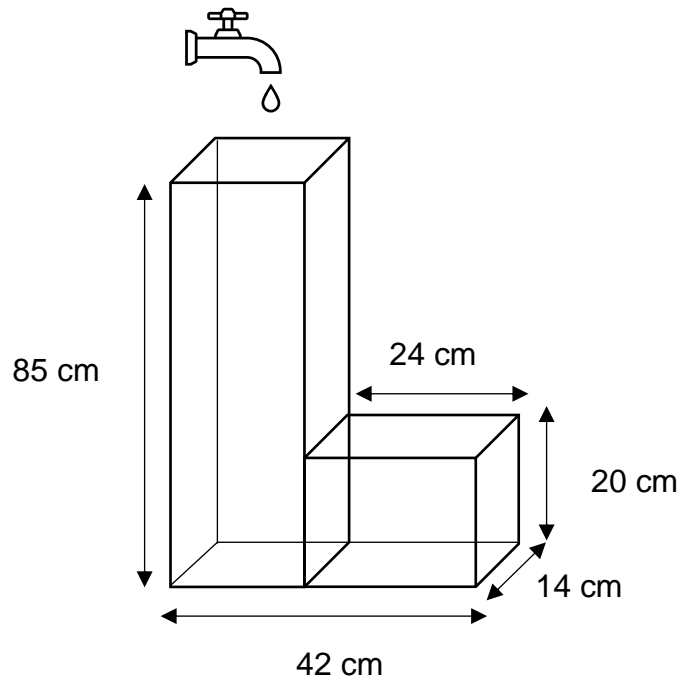
Ans: (a) _____ [1]

- b) The ratio of the number of students in Dance Club to the number of students in Brownies is 3 : 2. How many students are in Brownies?

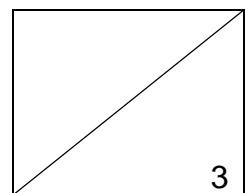
Ans: (b) _____ [2]



7. The figure below shows an empty container. All edges meet at right angles. When the tap is turned on, water flows into the container at rate of 2.01 litres per minute. How much time is needed to fill the container completely?



Ans: _____ [3]



8. The distance between Town C and Town D is 1680 km. Train X travels from Town C to Town D at 8.00 a.m. at an average speed of 230 km/h. At the same time, Train Y travels from D to Town C at an average speed of 190 km/h.

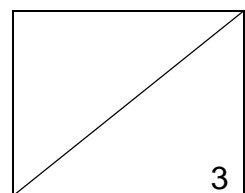
(a) What time did they meet?

Ans: (a) _____ [1]

(b) How far would each train have travelled when they meet on the way?

Ans: (b) Train X: _____ [1]

Train Y: _____ [1]

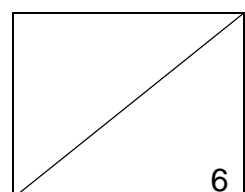


9. There were 45 soccer balls, 30 basketballs and 68 netballs in the PE room. After 80 balls were added, the number of soccer balls increased by 40% and the number of netballs increased by 25%. What was the percentage increase in the number of basketballs?

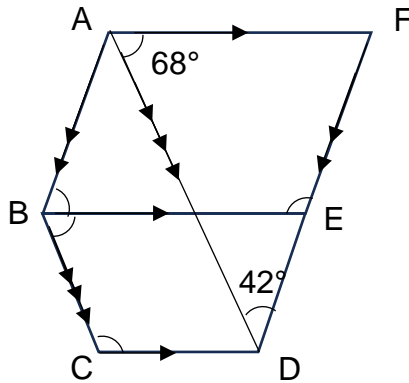
Ans: _____ [3]

10. Both Tammy and Adam left their houses at the same time to go to the water theme park. Tammy travelled 20 km from her house to the park at an average speed of 30 km/h. Adam travelled from his house at an average speed of 42 km/h and reached the park 15 minutes later than Tammy. What was the distance between Adam's home and the park?

Ans: _____ [3]



11. The figure below is not drawn to scale. ABEF is a parallelogram and BCDE is a trapezium. $BE \parallel CD$, $AB \parallel FD$ and $BC \parallel AD$, DF is a straight line. $\angle ADF = 42^\circ$ and $\angle DAF = 68^\circ$.



(a) Find $\angle BCD$.

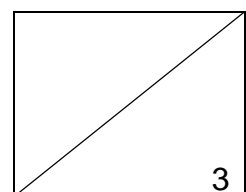
Ans: (a) _____ [1]

(b) Find $\angle ABE$.

Ans: (a) _____ [1]

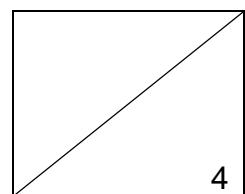
(c) Find $\angle BEF$.

Ans: (a) _____ [1]



12. There were a total of 2120 students in the school field at first. After 536 boys and $\frac{1}{4}$ of the girls left, the ratio of the number of boys to the number of girls became 4 : 9. How many more girls than boys were there at the school field in the end?

Ans: _____ [4]



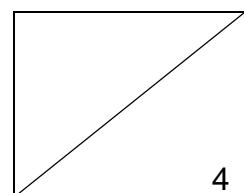
13. Bottles A, B and C contain 7.35 litres of paint altogether. $\frac{1}{5}$ of the paint in Bottle A is transferred to Bottle B. After that, $\frac{1}{5}$ of the paint in Bottle B is transferred to Bottle C. Now, Bottle A has twice the amount of paint in Bottle B and Bottle B has twice the amount of paint in Bottle C.

(a) How much paint was transferred from Bottle A to Bottle B?

Ans: (a) _____ [2]

(b) How much paint was in Bottle C at first?

Ans: (b) _____ [2]



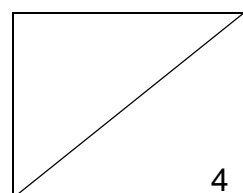
14. Gary is playing a mobile game on his phone. On his first win, he obtains 3 points. For every subsequent win, he will receive 2 additional points more than his previous win.

(a) Gary gets 6 wins in a row. What will be his score for the 6th win?

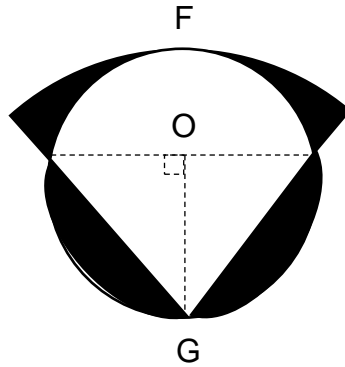
Ans: (a) _____ [2]

(b) How many times must he win the game in a row for him to achieve 98 points?

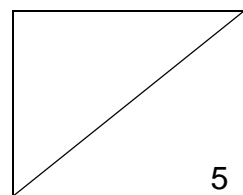
Ans: (a) _____ [2]



15. The figure below is made up a quadrant and a circle overlapping each other. The quadrant touches the circle at points F and G. The circle, with centre O, has a diameter of 24 cm. Find the area of the shaded part. (Take $\pi = 3.14$)



Ans: _____ [5]



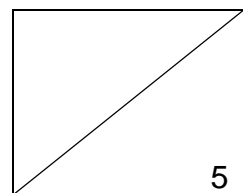
16. Mr Chan received \$6120 from selling some shoes and some shirts. He received \$3240 more for the shoes than the shirts. 4 times as many shoes as shirts were sold. Each shirt cost \$15 more than each shoe.

a) How much did Mr Chan receive for the shoes?

Ans: (a) _____ [2]

b) How many shirts did Mr Chan sell?

Ans: (b) _____ [3]



17. Abu, Bob, Cheryl and Donna shared a sum of money equally at first. Abu gave $\frac{2}{3}$ of his money to Bob.

(a) What fraction of the sum of money did Abu have in the end?

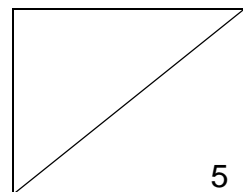
Ans: (a) _____ [1]

(b) Bob then gave $\frac{1}{5}$ of his money to Cheryl.

Cheryl then gave $\frac{3}{8}$ her money and an additional \$55 to Donna.

Donna had \$595 in the end. How much was the sum of money they shared?

Ans: (b) _____ [4]



End of Paper 2