SINGAPORE CHINESE GIRLS' SCHOOL
PRELIMINARY EXAMINATION 2025

# PRIMARY 5

# MATHEMATICS

## PAPER 1
## (BOOKLET A)

**Total Time for Booklets A and B: 1 h 10 minutes**

Name : _____ (  )  31 Oct 2025

**Class : Primary 5 SY / C / G / SE / P**

Mathematics Teachers

Mrs Lim Yuet Leng / Mrs Eng Ke Ying / Mrs Annie Tan / Miss Koh Yee Sung / Mrs Sree-Tan Mei Yin

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**INSTRUCTIONS TO CANDIDATES**

1. Do not open this booklet until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Shade your answers in the Optical Answer Sheet (OAS) provided.
5. You are not allowed to use a calculator.

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This booklet consists of 8 printed pages and 0 blank pages.

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Questions **1** to **10** carry **1** mark each. Questions **11** to **18** 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) on the Optical Answer Sheet.

**(26 marks)**

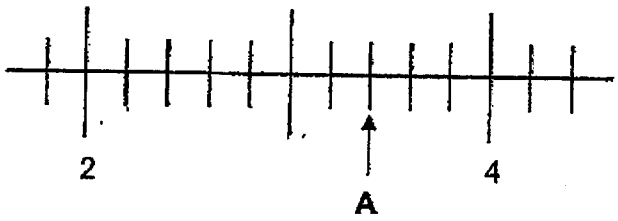
1. In 3 250 697, which digit is in the hundred thousands place?

   (1) 0
   (2) 2
   (3) 3
   (4) 5

2. Find the value of 168 × 5000

   (1) 8400
   (2) 84 000
   (3) 840 000
   (4) 8 400 000

3. In the number line below, what mixed number does the letter A stand for?




   (1) $2\frac{7}{10}$
   (2) $3\frac{2}{4}$
   (3) $3\frac{2}{5}$
   (4) $3\frac{7}{10}$

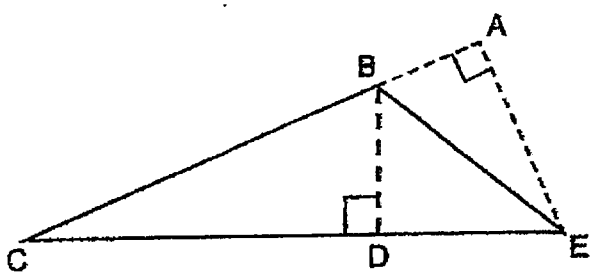


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4. Which of the following is greater than 5% but less than 11%?

(1) 0.05
(2) 0.1
(3) 0.7
(4) 0.8

5. In the figure below, BCE is a triangle. If BC is the base of the triangle, which of the following is its perpendicular height?




(1) AE
(2) BD
(3) BE
(4) CE

6. Which of the following is most likely to be the length of a dining fork?

(1) 5 cm
(2) 20 cm
(3) 0.5 m
(4) 1 m



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7. Find the value of $72 \div 8 + 4 \times 6$

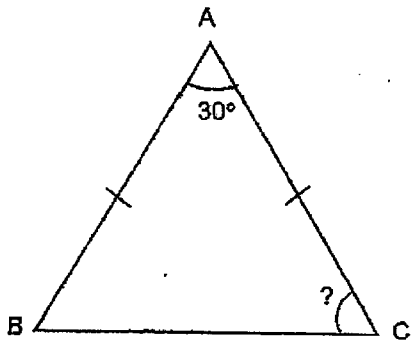
(1) 1
(2) 33
(3) 36
(4) 78

8. Arrange the decimals from the largest to the smallest.

6.08, 6.808, 6.008

| | Largest | | Smallest |
|---|---|---|---|
| (1) | 6.08, | 6.008, | 6.808 |
| (2) | 6.008, | 6.08, | 6.808 |
| (3) | 6.808, | 6.008, | 6.08 |
| (4) | 6.808, | 6.08, | 6.008 |

9. In the figure below, ABC is an isosceles triangle.



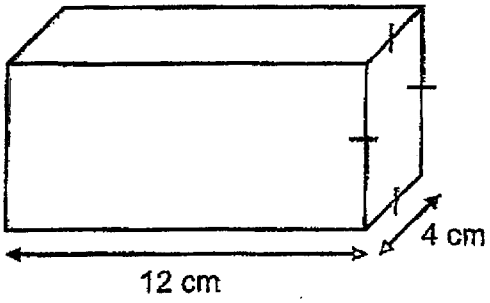

Find ∠ACB.

(1) 30°
(2) 60°
(3) 75°
(4) 90°



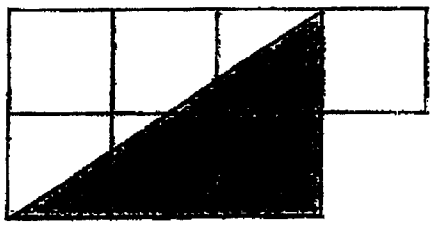
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10. Find the volume of the cuboid below.




(1) 48 $cm^3$
(2) 64 $cm^3$
(3) 96 $cm^3$
(4) 192 $cm^3$

11. The figure below is made up of identical squares. How many unshaded squares should be **added** to the figure so that 30% of the new figure is shaded?



(1) 5
(2) 7
(3) 3
(4) 10



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12. There are 90 buttons in a box. $\frac{1}{6}$ of them are blue, $\frac{2}{5}$ of the buttons are red and the rest are green. How many green buttons are there?

(1) 15
(2) 36
(3) 39
(4) 45

13. Aisyah bought 2 litres of cooking oil. She uses 40 m*l* of cooking oil each day. How many days will it take for the cooking oil to be completely used up?

(1) 5
(2) 20
(3) 50
(4) 100

14. A repeat pattern is formed using 2, 4, 6 and 8. The first 15 numbers are shown below. Which number is in the 78$^{th}$ position?

2 4 6 8 2 4 6 8 2 4 6 8 2 4 6 ...

(1) 6
(2) 2
(3) 8
(4) 4

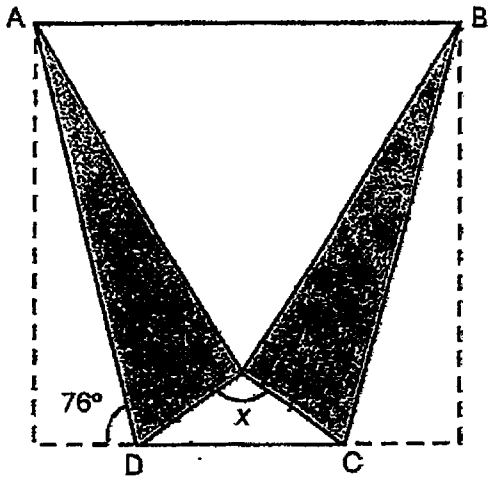


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15. A lift can take up to 14 adults or 21 children at a time.
There are 6 adults and 2 children in the lift now. How many more children can fit into the lift?

(1) 10
(2) 13
(3) 16
(4) 19

16. A rectangular piece of paper is folded to form a trapezium ABCD.
The two shaded triangles are identical.



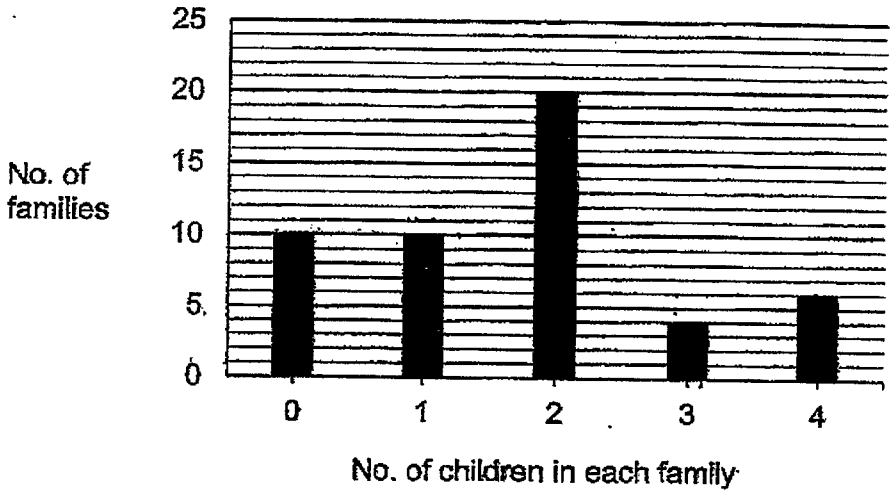

Find $\angle x$.

(1) 56°
(2) 76°
(3) 90°
(4) 124°



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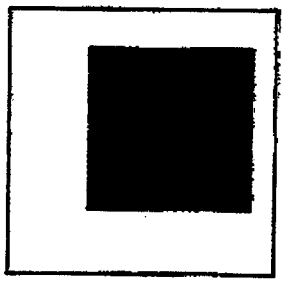
17. The bar graph below shows the number of children living in each family at a block of flats.




How many children are living in the block?

(1) 50
(2) 86
(3) 90
(4) 96

18. The figure below is made up of 2 overlapping squares. The unshaded area is 36 $cm^2$. Given that the lengths of both squares are whole numbers, what is the perimeter of the larger square?



(1) 28 cm
(2) 32 cm
(3) 36 cm
(4) 40 cm

**END OF PAPER 1 BOOKLET A**



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SINGAPORE CHINESE GIRLS' SCHOOL
PRELIMINARY EXAMINATION 2025

# PRIMARY 5

# MATHEMATICS

## PAPER 1
## (BOOKLET B)

**Total Time for Booklets A and B: 1 h 10 minutes**

**Name :** _____ (  )  **31 Oct 2025**

**Class : Primary 5 SY / C / G / SE / P**

Mathematics Teachers

Mrs Lim Yuet Leng / Mrs Eng Ke Ying / Mrs Annie Tan / Miss Koh Yee Sung /
Mrs Sree-Tan Mei Yin

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**INSTRUCTIONS TO CANDIDATES**

1. Do not open this booklet until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. You are not allowed to use a calculator.
5.

| | Max Mark | Marks attained |
|---|---|---|
| Booklet B | 24 | |

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**Booklet B**

Questions **19** to **30** carry 2 mark 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. **(24 marks)**

19. Round off 1344.768 to the

(a) nearest tens,

(b) nearest tenths.

Ans: (a) _____

(b) _____

20. A packet of flour weighs $\frac{7}{8}$ kg.

Mrs Lee used $\frac{1}{2}$ kg to make pancakes and $\frac{1}{4}$ kg to bake a pie.

How much flour was left?

Ans: _____ kg

4



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21. A crate with 30 identical balls has a mass of 1 kg. The empty crate is 0.25 kg. Each ball has the same mass. What is the mass of 1 ball?

Ans: _____ kg

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22. Mr Gopal deposits $6000 in a bank.

The bank offers an interest rate of 3% per year.

How much money would he have in his bank account at the end of one year?

Ans: $_____

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23. Mrs Chandra had 45 m of ribbon.

She gave $\frac{2}{9}$ of the ribbon to Sam and $\frac{1}{7}$ of the remaining ribbon to Jane.

How much ribbon did Jane have?

Ans: _____ m

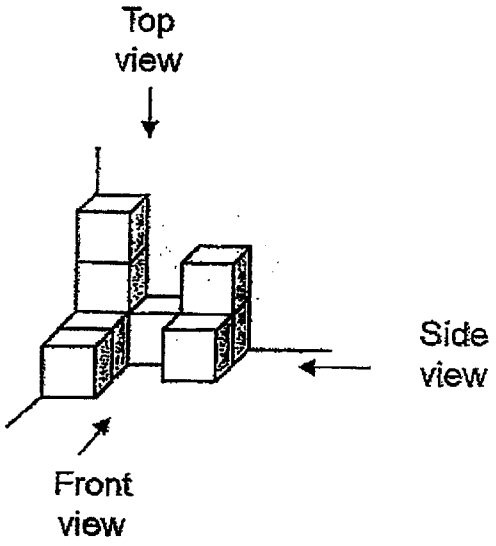
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6

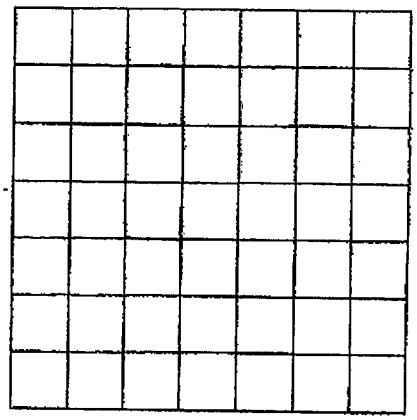


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24. The solid below is made up of 1-cm cubes.




Draw the top view of the solid on the square grid below.

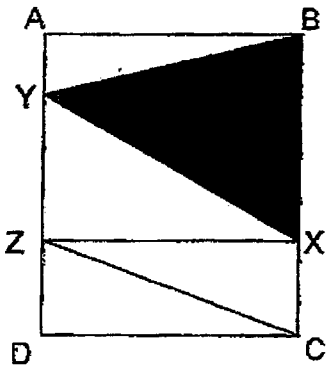


2



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25. ABCD is a rectangle.
The area of triangle BXY is twice the area of triangle CXZ. What fraction of the figure is shaded?




Ans: _____

26. Ginny had just enough money to buy 20 notebooks.
She bought 15 notebooks and had $7 left.
What was the price of each notebook?

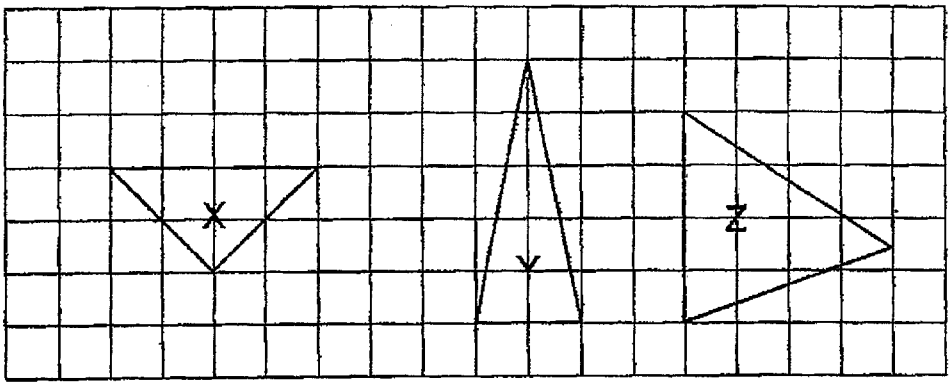
Ans: $ _____

4



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27. Triangles X, Y and Z are drawn in the square grid below.




Each of the statement below is either true, false or not possible to tell from the information given. For each statement, put a tick (✓) to indicate your answer.

| Statement | True | False | Not possible to tell |
|---|---|---|---|
| All three triangles are isosceles triangles. | | | |
| Triangle X is a right-angled triangle. | | | |

28. Jamil fills $\frac{2}{5}$ of a tank with water. Another 6 litres of water are needed to fill the tank to the brim. What is the capacity of the tank?

Ans: _____ *l* [4]

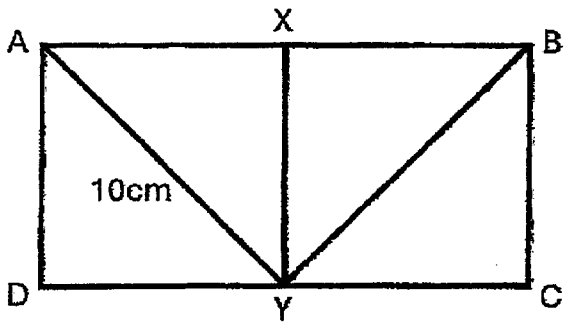


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29. At a bakery, fruit tarts were sold in boxes of 4 or 12. Elsa bought 88 fruit tarts. What was the least number of boxes of fruit tarts Elsa bought?

Ans: _____

30. The figure is made up of 2 identical squares, AXYD and XBCY.
Given that AY = 10 cm, what is the area of triangle ADY?




Ans: _____ $cm^2$

4



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SINGAPORE CHINESE GIRLS' SCHOOL
END-OF-YEAR EXAMINATION 2025

# PRIMARY 5

# MATHEMATICS

# PAPER 2

**Total Time: 1 h 20 minutes**

**Name :** _____ **(  )** **31 Oct 2025**

**Class : Primary 5 SY / C / G / SE / P**

Mathematics Teachers

Mrs Lim Yuet Leng / Mrs Eng Ke Ying / Mrs Annie Tan / Miss Koh Yee Sung /
Mrs Sree-Tan Mei Yin

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**INSTRUCTIONS TO CANDIDATES**

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2. Follow all instructions carefully.
3. Answer all questions.
4. You are allowed to use a calculator.

| | | Max Mark | Marks attained |
|---|---|---|---|
| Paper 1 | Booklet A | 26 | |
| | Booklet B | 24 | |
| Paper 2 | | 50 | |
| Total Marks | | 100 | |

| Parent's Signature |
|---|
| |

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Questions **1** to **5** 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. (10 marks)

1. Find the value of

   (a) $7\frac{1}{4} \times 13$

   (b) $5\frac{2}{5} + 1\frac{1}{7}$

   Give your answer as a mixed number in its simplest form.

Ans: (a) _____

(b) _____

2. The mass of a durian is 5.35 kg and the mass of a papaya is 870 g. What is the total mass of the durian and papaya?

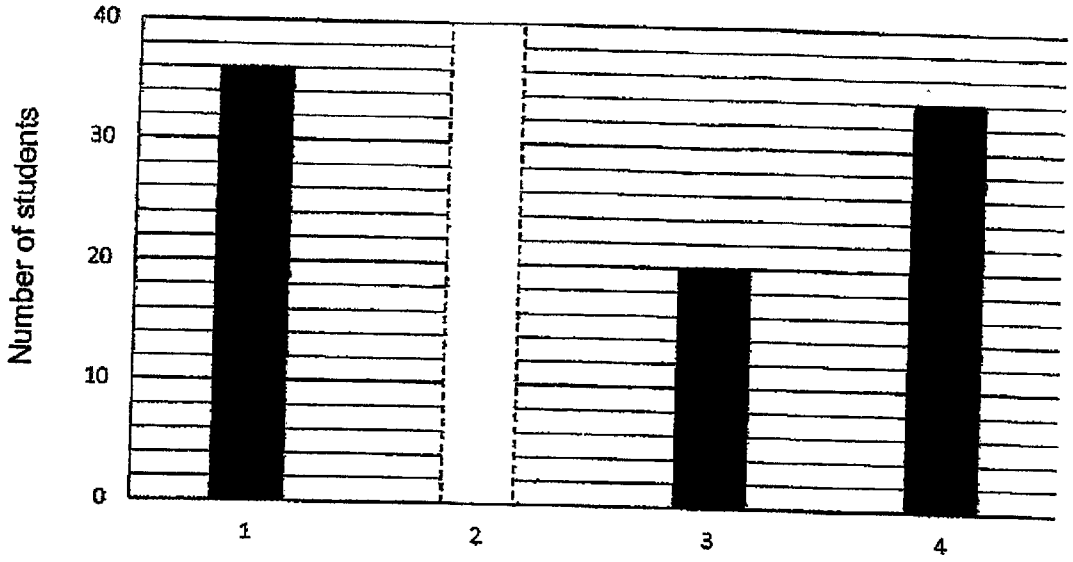
Ans: _____ kg

4



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3. The table below shows the number of students who borrowed books from a library in the month of October.




$\frac{1}{6}$ of the students borrowed 2 books each.

Draw the bar that represents the number of students who borrowed 2 books each in the bar graph above.

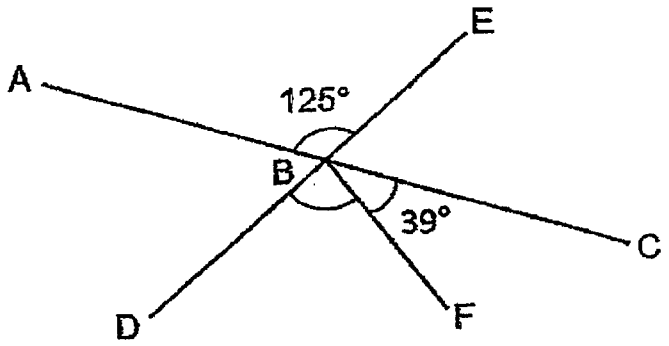
[2]





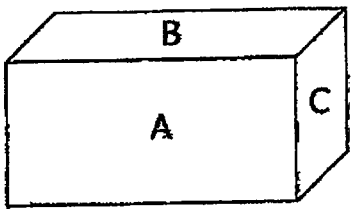
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4. In the diagram below, ABC and EBD are straight lines.
$\angle ABE = 125°$ and $\angle CBF = 39°$. Find $\angle DBF$.




Ans: _____°

5. The diagram below shows a cuboid. The area of rectangle A is 36 $cm^2$, the area of rectangle B is 27 $cm^2$ and the area of rectangle C is 12 $cm^2$. Find the volume of the cuboid.



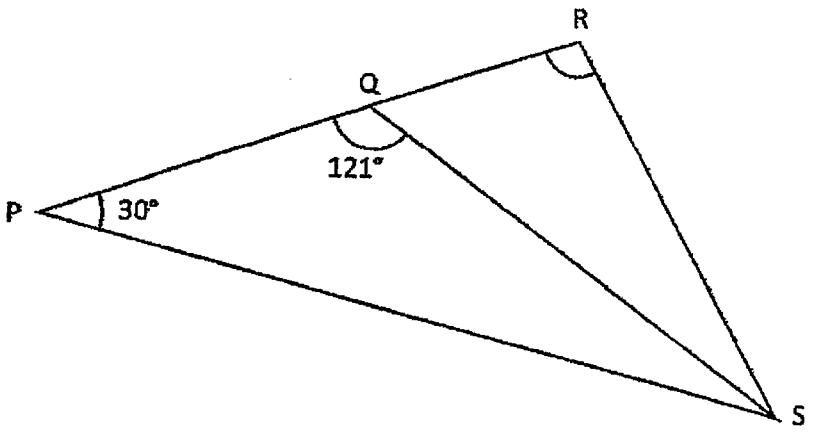

Ans: _____ $cm^3$ 4



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For questions **6** to **15**, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (40 marks)

6. PQR is a straight line and ∠PSQ = ∠RSQ.




Find ∠QRS.

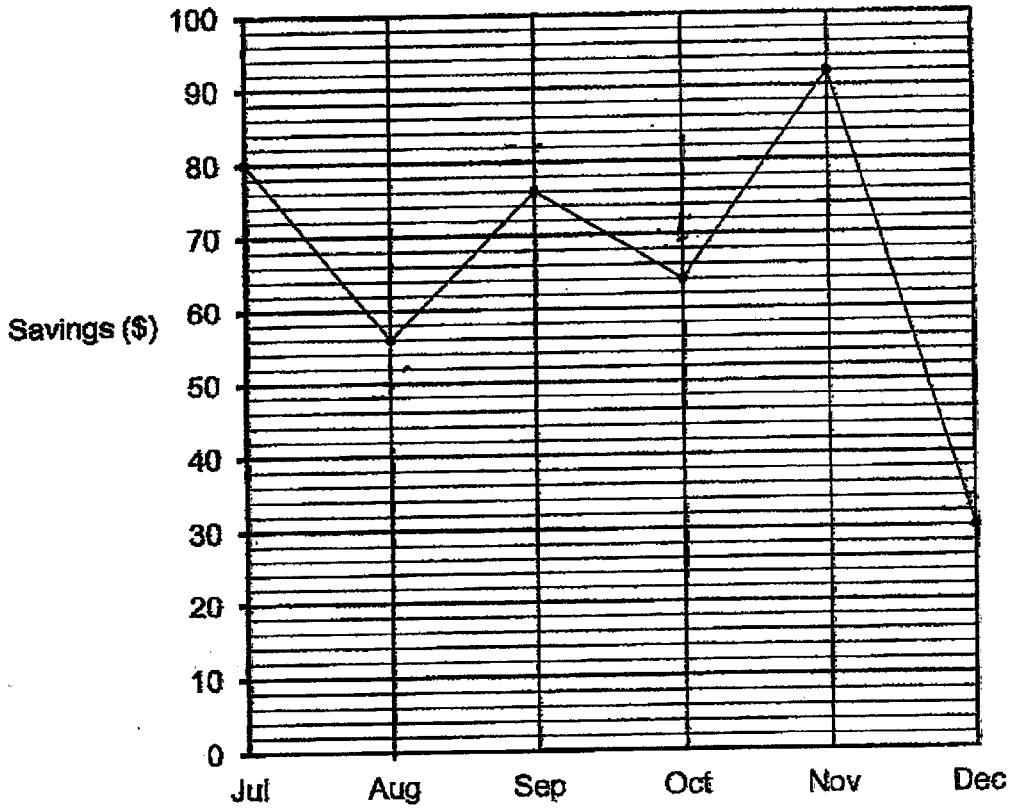
Ans: _____° [3]

.3



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7. Sophie receives an allowance of $150 per month. She spends part of her allowance each month and saves the rest. The line graph below shows the amount she saved from July to December.




(a) In which month did she spend the most?

Ans: _____ [1]

(b) How much did she save in total from July to December?

Ans: $_____ [1]

(c) Find the difference between her spending in July and August.

Ans: $_____ [2]

4



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8. Wei Ming bought more than 20 apples and oranges from the supermarket.

(a) If he packs the apples into bags of 10, he will be short of 3 apples. If he packs the apples into bags of 6, he will have 1 apple left. What is the least possible number of apples he bought?

Ans: _____ [2]

(b) An apple cost $0.40 less than an orange.

Wei Ming can either buy 30 apples or 20 oranges with all his remaining money. How much does an orange cost?

Ans: _____ [2]

4



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9. A refrigerator costs $1380 before 9% GST. During a sale, Mr Lim bought the refrigerator at a 25% discount. How much did Mr Lim pay for the refrigerator including GST?

Ans: $ _____ [3]

10. There are 20 questions in a spelling contest. For every correct answer, 3 marks will be awarded. For every wrong answer given, 1 mark will be deducted. Syed answered all the questions and scored 44 marks. How many correct answers did Syed give?

Ans: _____ .[3]

6



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11. At a tree planting event, there were $\frac{1}{2}$ as many children as adult. Each child planted 3 trees and each adult planted 5 trees. A total of 286 trees were planted at the event. How many people participated in the event?

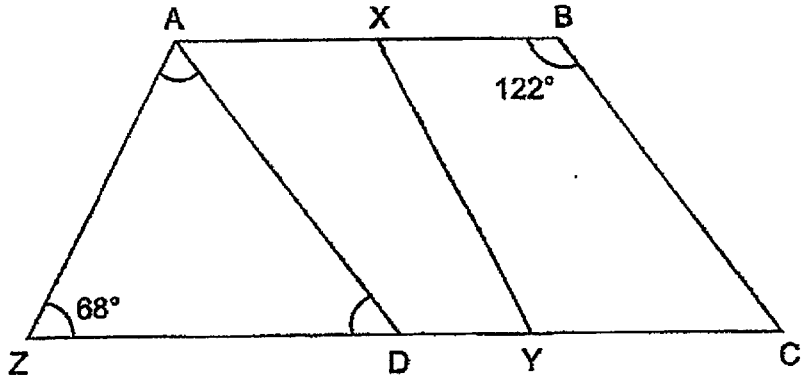
Ans: _____ [4]

4



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12. The figure below is made up of a parallelogram ABCD and a trapezium AXYZ. $\angle ABC = 122°$ and $\angle AZY = 68°$.




(a) Find $\angle ZAD$.

Ans: _____° [3]

(b) Find $\angle ZDA$.

Ans: _____° [1]

(c) Circle the words that describe Triangle ZAD correctly in the following statement.

| |
|---|
| Since Triangle ZAD **(has / does not have)** 2 equal angles, Triangle ZAD **(is / is not)** an isosceles triangle. |

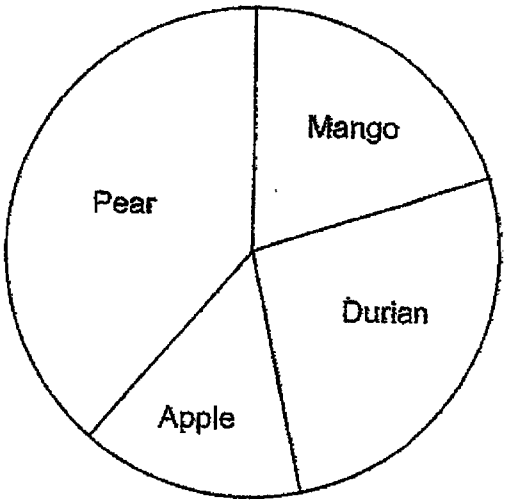
[1]

5



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13. A group of 150 children took part in a survey on their favourite fruit. $\frac{1}{5}$ of them like mango, $\frac{1}{3}$ of the remainder like durian. 20 children like apple and the rest like pear. The result of the survey is represented in the pie chart as shown.




Find the percentage representing the children who like pear in the pie chart.

Ans: _____ % [5]

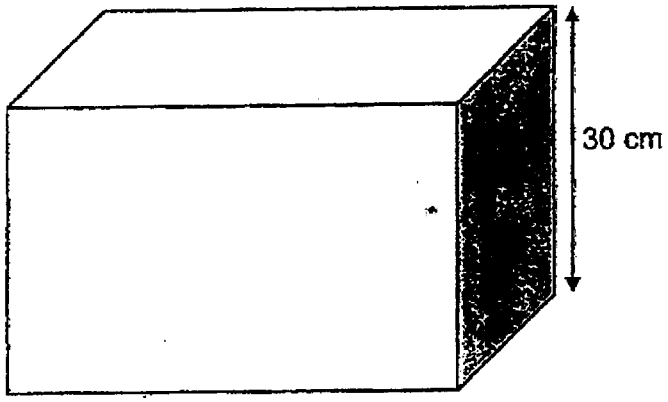
5



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14. A tank with a rectangular base is shown below.

The height of the tank is 30 cm and the capacity of the tank is 24 litres.




(a) Find the base area of the tank.

Ans: (a) _____ $cm^2$ [2]

(b) The length of the rectangular base is twice its breadth.

Find the dimensions of the rectangular base.

Ans: (b) Length _____ cm

Breadth _____ cm [3]

5



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15. Trevor had a sum of money.

He spent $\frac{2}{3}$ of his money on a set of sofa and $\frac{1}{3}$ of the remainder on a television. The set of sofa costs $1520 more than the television.

How much money did Trevor have at first?

Ans: $_____ [4]

**End of Paper 2**

*~ Please check your work thoroughly. ~*

4



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YEAR : 2025
LEVEL : PRIMARY 5
SCHOOL : SINGAPORE CHINESE GIRLS' SCHOOL
SUBJECT : MATHEMATICS
TERM : END OF YEAR EXAMINATION

(BOOKLET A)

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Q1 | 2 | Q2 | 3 | Q3 | 3 | Q4 | 2 | Q5 | 1 |
| Q6 | 2 | Q7 | 3 | Q8 | 4 | Q9 | 3 | Q10 | 4 |
| Q11 | 3 | Q12 | 3 | Q13 | 2 | Q14 | 4 | Q15 | 1 |
| Q16 | 4 | Q17 | 2 | Q18 | 4 | | | | |

(BOOKLET B)

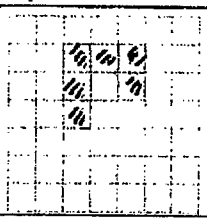
**Q19**
(a) $1244 \approx 1340$
(b) 13448

**Q20**
$\frac{7}{8} - \frac{1}{2} - \frac{1}{4} =$
$\frac{7}{8} - \frac{4}{8} - \frac{2}{8} = \frac{1}{8}$kg

**Q21**
30 balls → 1kg − 0.25kg = 0.75
1 ball → $\frac{0.75}{10}$
$= \frac{0.25kg}{10}$
= 0.025

**Q22**
Interest → 3% x \$6000
$= \frac{3}{100}$ x \$6000
= \$180
End of year → \$6000 + \$180
= \$6180

**Q23**
45 ÷ 9 = 5

**Q24**


**Q25**
Shaded → 2 units
CXZ → 1 units
DZC → 1 unit
CZC → 1 unit
ABY → 1 unit
ABY → AB x AD
AD → 3 x AY
ABC → AB x (3 x AY) = 3 x (AB x AY)
ABCD = 3 x (2u) = 6u
$\frac{Shaded\ Area}{Total\ Area} = \frac{2u}{6u}$
$= \frac{1}{3}$

**Q26**
5 notebooks → \$7
1 notebook → \$7 ÷ 5
= \$1.40

**Q27**

| | |
|---|---|
| All three triangles are isosceles triangles. | False |
| Triangle X is a right-angled triangle. | True |

**Q28**
$\frac{5}{5} - \frac{2}{5} = \frac{3}{5}$
3u → 6
1u → 6 ÷ 3 = 2
5u → 2 x 5 = 10



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| | | | |
|---|---|---|---|
| Q29 | 84 + 4 + 88<br>7 + 1 = 8 | Q30 | Area of ADY → $(\frac{1}{2} \times 10 \times 10) \div 2$<br>$= 50 \div 2$<br>$= 25\ cm^2$ |

PAPER 2

| | | | |
|---|---|---|---|
| Q1 | a) $94\frac{1}{4}$<br>b) $6\frac{19}{35}$ | Q2 | Total – 5.35kg + 0.87kg<br>= 6.22kg |
| Q3 | $\frac{5}{6}$ of students → 36 + 20 + 34<br>= 90<br>$\frac{1}{6}$ of students → $\frac{90}{5} = 18$ | Q4 | ∠DBF → 125 – 90 = 86° |
| Q5 | Length → 9cm<br>Breadth → 3cm<br>Height → 4cm<br>Vol. → 9 x 3 x 4 = $108cm^3$ | Q6 | ∠PSQ → 180 – 121 – 30 = 29°<br>∠QRS → 121 – 29 = 92° |
| Q7 | a) December<br>b) Saved → $80 + $56 + $76 + $64 + 92 + $30 = $398<br>c) July → $150 - $80 = $70<br>August → $150 - $56 = $94<br>Diff → $94 - $70 = $24 | Q8 | Bags of 10: 30, 40, 50, 60<br>Short of 3 : 27, 37, 47, 57<br>Bag of 6 : 24, 30, 36<br>1 apple left : 25, 31, 37<br>Ans: 37<br>b) 10 apple → $0.40 x 20 = $8<br>1 apple → $\frac{8}{10}$ = $0.80<br>1 orange → $0.80 + $0.40 = $1.20 |
| Q9 | After discount → $\frac{75}{100}$ x $1380<br>= $1035<br>After discount → $\frac{109}{100}$ x $1035<br>= $1128.15 | Q10 | If Syed answered all correctly, he would have scored → 20 x 3 = 60<br>Diff → 60 – 44 = 16<br>Penalty for each wrong answer → 3 + 1 = 4<br>No. of wrong answer → $\frac{16}{4} = 4$<br>Correct → 20 – 4 = 16 |
| Q11 | 1 set → 5 x 2 + 3 = 13<br>No. of sets → $\frac{286}{13} = 22$<br>No. of people → 22 x 3 = 66 | Q12 | a) ∠BAD → 180 – 122 = 58<br>∠ZAD → 180 – 68 – 58 = 54<br>b) ∠ZDA → 180 – 68 – 54 = 58<br>c) Since Triangle ZAD does not have 2 equal angles, Triangle ZAD is not an isosceles triangle. |
| Q13 | Mango → $\frac{1}{5}$ x 150 = 30<br>Remainder → $\frac{4}{5}$ x 15 = 120<br>Durian → $\frac{1}{3}$ x 120 = 40<br>Pear → 120 – 40 – 20 = 60<br>Pear % → $\frac{60}{150} = \frac{2}{5}$<br>= 40% | Q14 | a) Base area → $\frac{24\,000}{30} = 800cm^2$<br>b) Breadth → $\sqrt{\frac{800}{2}} = 20$<br>Length → 20 x 2 = 40cm<br>Breadth → 20cm |



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| | |
|---|---|
| Q15 | $5u \rightarrow \$1520$<br>$1u \rightarrow \frac{\$1520}{6} = \$304$<br>$9u = \$304 \times 9 = \$2736$ |

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END

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