Anglo-Chinese School (Junior)

PRELIMINARY EXAMINATION (2026)

PRIMARY 6
MATHEMATICS
PAPER 1
(Booklet A)

21 August 2026

Total Time for Booklets A and Booklet B : 1 hour 10 minutes

Name: _____ Class: _____

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Use a 2B pencil to shade your answers on the Optical Answer Sheet (OAS).
5. The use of calculators is **NOT** allowed.

This booklet consists of 9 printed 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) and shade your answer on the Optical Answer Sheet (OAS.)

(26 marks)

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1 Ninety thousand and seventy-five in numerals is

(1) 9075

(2) 90 075

(3) 90 750

(4) 900 075

2 Which decimal is the smallest?

(1) 0.13

(2) 0.31

(3) 0.103

(4) 0.301

3 What is the estimated mass of ten 30-cm plastic rulers?

(1) 20 g

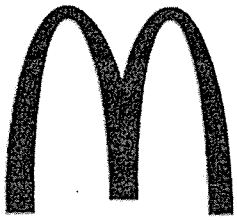
(2) 200 g

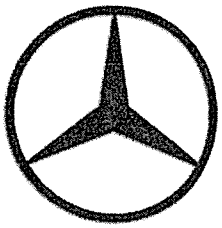
(3) 2000 g

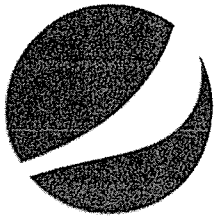
(4) 20 000 g

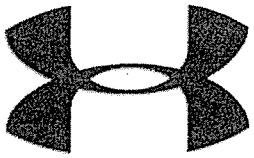
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4 Which of the following logos is **not** symmetrical?

(1) 

(2) 

(3) 

(4) 

5 The boarding time for a flight to Bangkok was 10:00 pm. Kai Qing arranged to meet her friend at the airport 2 hours before boarding time. What time did Kai Qing meet her friend at the airport?

(1) 08 00

(2) 12 00

(3) 20 00

(4) 23 00

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6 Arrange these fractions from the smallest to the largest

$\frac{5}{9}$, $\frac{2}{5}$, $\frac{5}{11}$

Smallest Largest

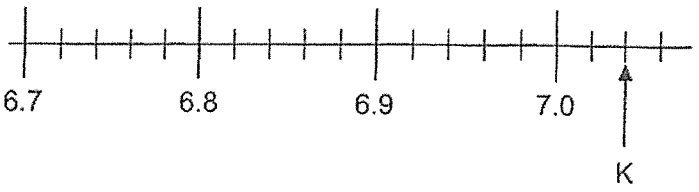
(1) $\frac{2}{5}$, $\frac{5}{9}$, $\frac{5}{11}$

(2) $\frac{5}{11}$, $\frac{5}{9}$, $\frac{2}{5}$

(3) $\frac{5}{9}$, $\frac{5}{11}$, $\frac{2}{5}$

(4) $\frac{2}{5}$, $\frac{5}{11}$, $\frac{5}{9}$

7 Part of a scale is shown below. What is the value of the reading at K?



(1) 7.02

(2) 7.04

(3) 7.2

(4) 7.4

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8 What is the value of $49 + (27 - 6 + 3) \times 2$?

(1) 63

(2) 72

(3) 99

(4) 148

9 The number of blue beads is $\frac{5}{7}$ of the number of red beads in a bottle. What is the ratio of the number of red beads to the total number of beads in the bottle?

(1) 7 : 12

(2) 7 : 5

(3) 5 : 7

(4) 5 : 12

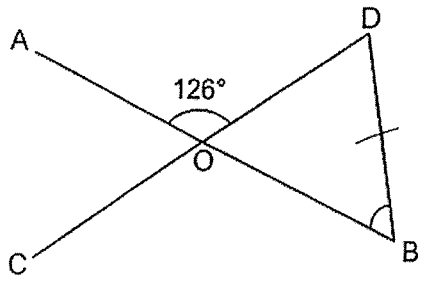
10 AOB and COD are straight lines. DO = DB and ∠AOD = 126°.
Find ∠DBO.

(1) 54°

(2) 63°

(3) 72°

(4) 126°



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11 The petrol price for ten litres of petrol in Singapore has increased from **$28** in 2025 to $35 in 2026 Find the percentage increase in price for ten litres of petrol

(1) 20%

(2) 25%

(3) 80%

(4) 125%

12 Mohan parked his electric car at a charging station and charged it from 13 45 to 15 18. The charging rates at the station are shown in the table below.

Charging Duration	Rate
First 1 hour	$8.50
Every additional 10 minutes or part thereof	$1.20

How much did Mohan pay for charging his electric car?

(1) $12.10

(2) $13.30

(3) $17.00

(4) $18.10

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13 The table shows the temperatures of cities W, X, Y and Z.

City	Lowest Temperature (°C)	Highest Temperature (°C)
W	6	14
X	11	18
Y	16	27
Z	8	22

When Raju was in two of these cities, the temperature was 10°C.
Which two cities could he have been in?

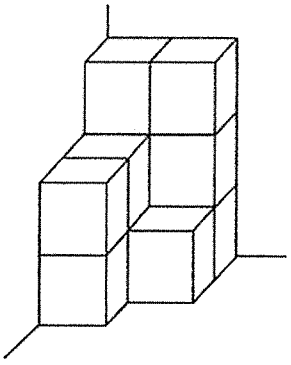
(1) W and X

(2) W and Z

(3) X and Y

(4) Y and Z

14 What is the least number of small cubes that would need to be added to the figure below to form a big cube?



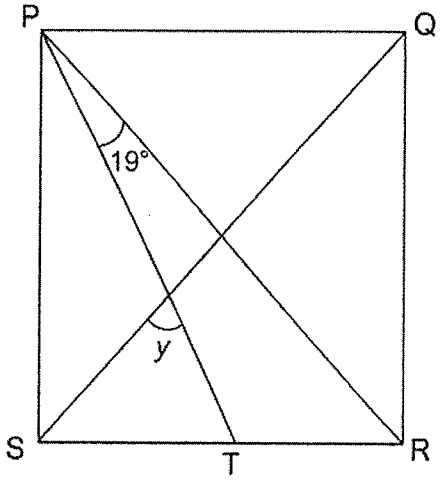
(1) 7

(2) 11

(3) 16

(4) 27

15 PQRS is a square. PR, QS and PT are straight lines. ∠TPR = 19°.
Find ∠y.



(1) 45°

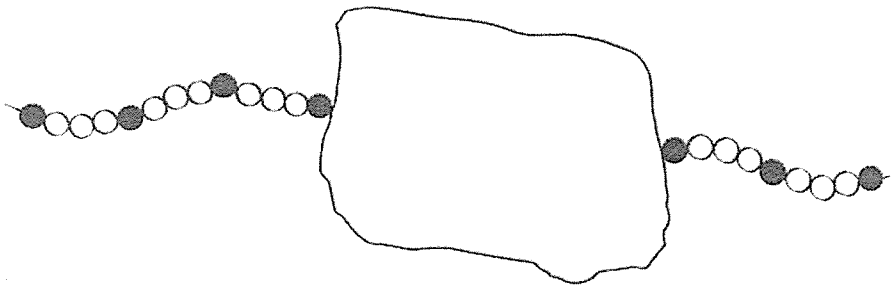
(2) 64°

(3) 71°

(4) 73°

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16 A string of beads is partly covered by a piece of cloth as shown There are 3 white beads between every 2 black beads There are 12 black beads altogether in this string What is the total number of white beads?



(1) 18

(2) 27

(3) 33

(4) 36

17 Mrs Tan bought some purple and blue pens. After giving away an equal number of purple and blue pens, she had $\frac{2}{3}$ of the purple pens and $\frac{2}{5}$ of the blue pens left. What fraction of the pens Mrs Tan bought were given away?

(1) $\frac{1}{2}$

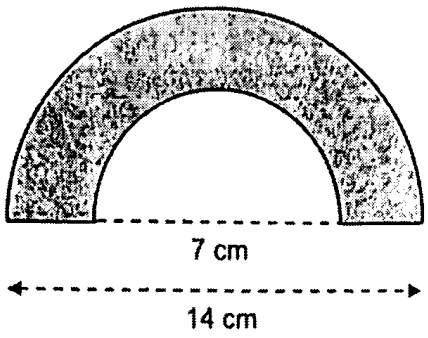
(2) $\frac{3}{7}$

(3) $\frac{3}{14}$

(4) $\frac{7}{15}$

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18 The diameters of the big semi-circle and small semi-circle are 14 cm and 7 cm respectively. Find the perimeter of the shaded figure (Take $\pi = \frac{22}{7}$)



(1) 33 cm

(2) 40 cm

(3) 66 cm

(4) 73 cm

End of Booklet A

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Anglo-Chinese School (Junior)

PRELIMINARY EXAMINATION (2026)

PRIMARY 6
MATHEMATICS
PAPER 1
(Booklet B)

21 August 2026

Total Time for Booklets A and Booklet B : 1 hour 10 minutes

Name: _____ Class: 6

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer **all** questions.
4. Use a dark blue or black ballpoint pen to write your answers in the space provided for each question.
5. The use of calculators is **NOT** allowed.
6. Do not use correction fluid/tape.
7. Do not use highlighters on any part of your answers.

This question paper consists of 7 printed pages and 1 blank page.

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Questions **19** to **30** 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.

(24 marks)

19 (a) Express 2.3 as a mixed number.

Ans : (a) _____

(b) Find the value of 7.2 x 300.

Ans : (b) _____

20 (a) Simplify 16n + 7 – 4n + 11.

Ans : (a) _____

(b) Find the value of $\frac{9h}{2} - h$ when h = 4.

Ans : (b) _____

Sub-Total : [ ]

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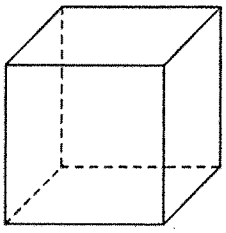
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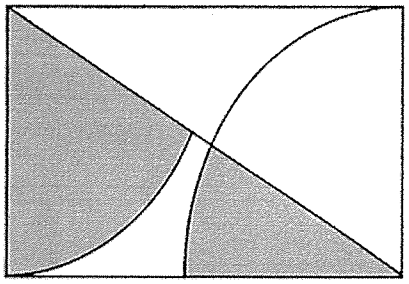
21 A piece of wire is used to make the cube shown below. Each side of the cube is 4 cm long. What is the length of the wire?



Ans : _____ cm

22 The figure is made up of a rectangle and 2 identical quarter circles. The breadth of the rectangle is 14 cm. What is the total area of the shaded parts?

Take $\pi = \frac{22}{7}$)



Ans : _____ cm^2

23 A baker uses some flour and sugar in the ratio of 5 : 4 to bake a cake. Each cake uses 500 g of flour. She has 2 kg of flour and 900 g of sugar. What is the greatest number of cakes she can bake?

Ans : _____

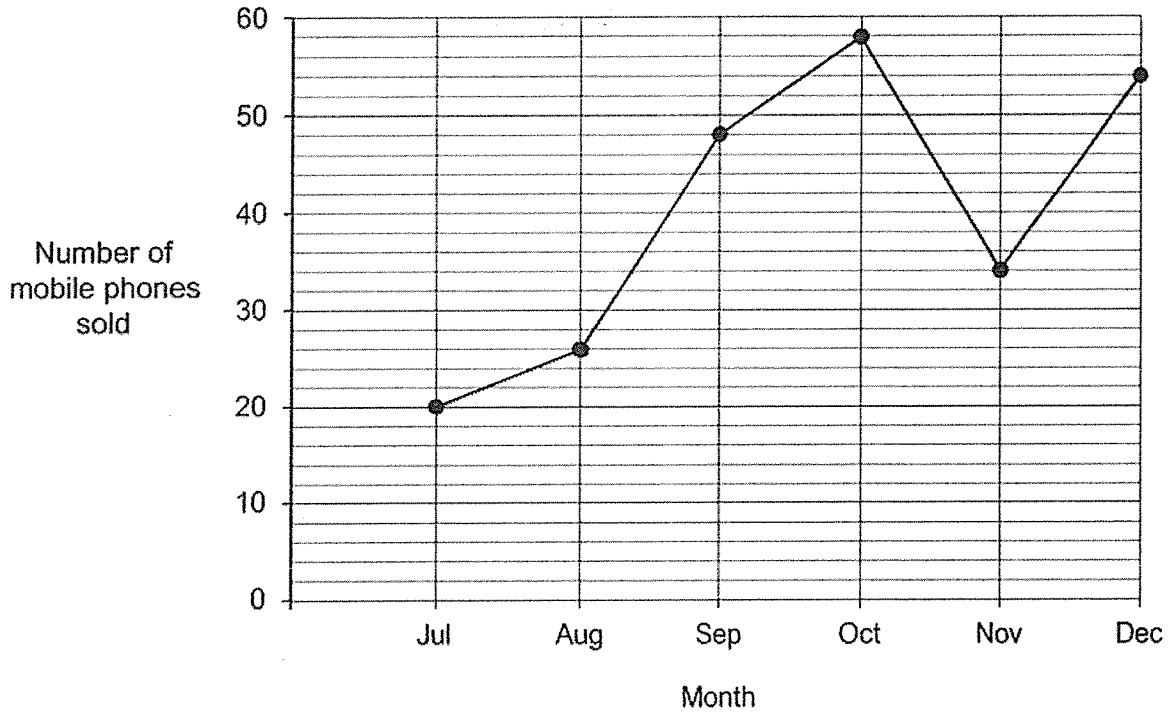
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S1

24 The graph below shows the sale of mobile phones in a shop from July to December.



During which 1-month period was the increase in the number of mobile phones sold the greatest?

Ans : _____

25 Mrs Wang made some coin purses in three colours: orange, blue and pink. $\frac{3}{10}$ of the coin purses were blue. The number of blue coin purses was twice the number of orange coin purses. What fraction of the coin purses were pink?

Ans : _____

Sub-Total :

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26 Mi Han placed all his marbles into 36 bottles with an equal number of marbles in each bottle. 6 of the bottles broke, and the marbles in these broken bottles were then placed into the remaining bottles. As a result, the number of marbles in each remaining bottle increased by 9 What was the number of marbles in each bottle at first?

Ans : _____

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27 The average of four 3-digit numbers is 240. Two of the numbers are 170 and 200. What is the largest possible difference between the other two numbers?

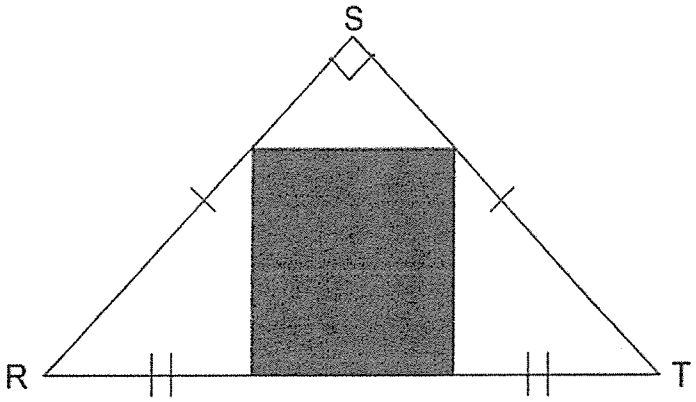
Ans : _____

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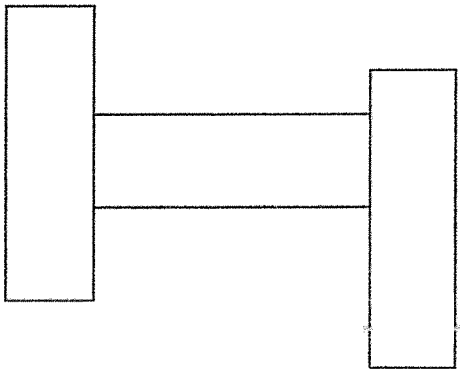
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28 Triangle RST is a right-angled triangle where RS = TS = 6 cm. Find the area of the shaded part.



Ans : _____ cm^2

29 The figure below is made up of three identical rectangles. The breadth of the rectangle is 3 cm and the length is 3 times the breadth. Find the perimeter of the figure.



Ans : _____ cm

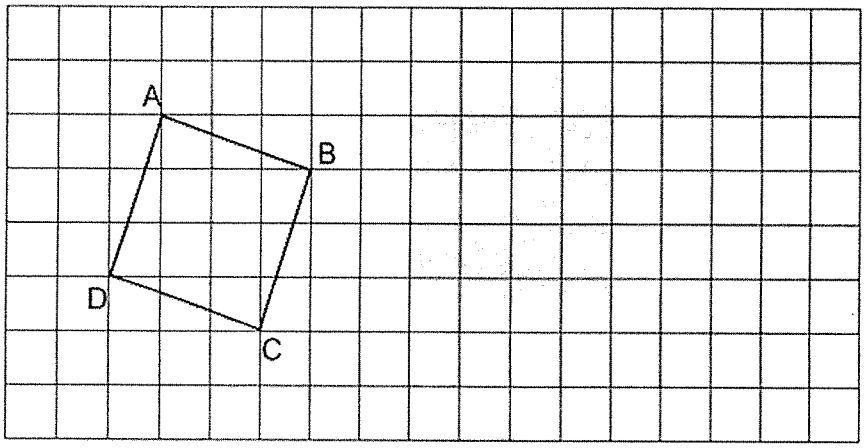
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30 A square ABCD is drawn on a square grid.

Draw a rectangle EFGH with the same area as square ABCD.



End of Booklet B

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Anglo-Chinese School (Junior)

PRELIMINARY EXAMINATION (2026)

PRIMARY 6
MATHEMATICS
PAPER 2

21 August 2026

Time : 1 hour 20 minutes

Name: _____ Class:

Parent's Signature: _____

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Use a dark blue or black ballpoint pen to write your answers in the space provided for each question.
5. The use of an approved calculator is allowed.
6. Do not use correction fluid/tape.
7. Do not use highlighters on any part of your answers.

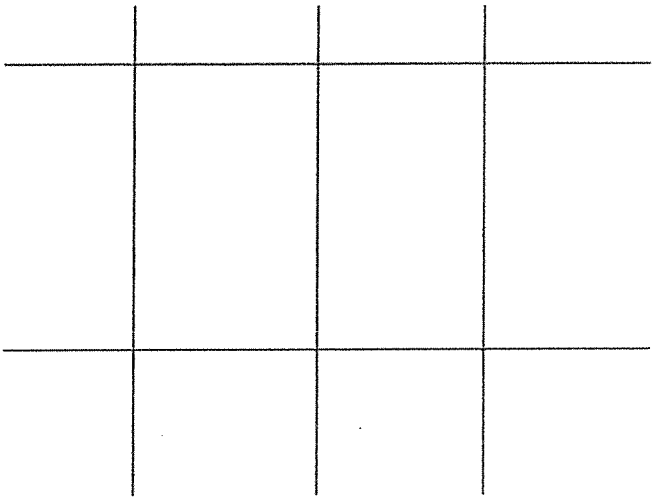
Paper	Booklet	Possible Marks	Marks Obtained
1	A	26	
	B	24	
2		50	
Total		100	

This question paper consists of 14 printed pages and 1 blank page.

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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 Gopal bought some boxes of pencils Each box contained 8 pencils The total number of pencils Gopal bought was less than 50 Gopal kept 7 pencils for himself and gave the rest equally to his 5 cousins How many pencils did Gopal buy?



Ans : _____

2 Mrs Ong earned $y for each jar of cookies that she sold. She earned an additional $1 for every 4 jars of cookies sold. Mrs Ong sold 10 jars of cookies and earned $72. Find the value of y.

Ans : _____

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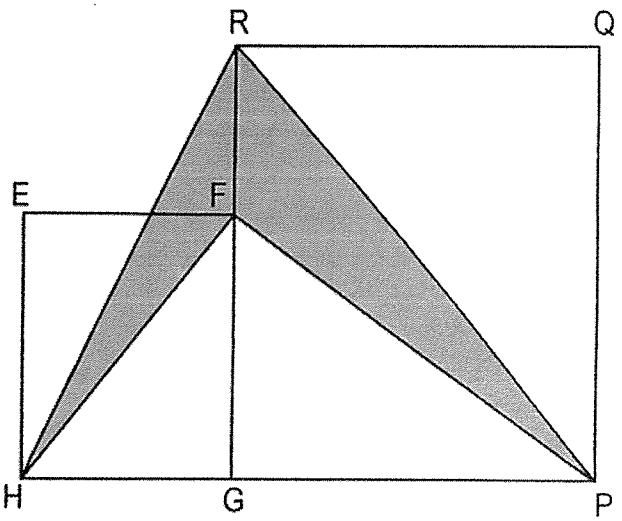
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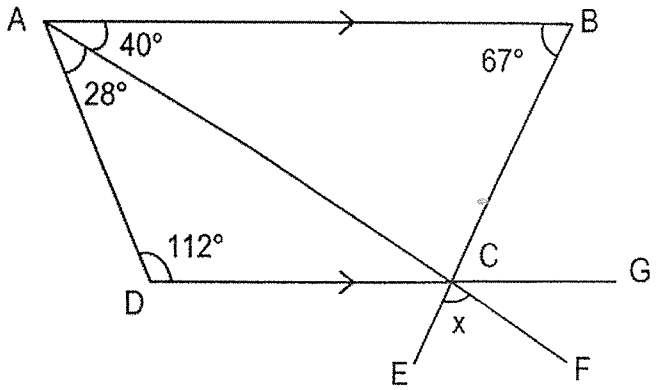
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3 In the figure below, EFGH and PQRG are squares with areas 36 cm^2 and 64 cm^2 respectively Find the area of the shaded parts.



Ans : _____ cm^2

4 ABCD is a trapezium with AB parallel to DG. DG, BE and AF are straight lines. Find $\angle x$.



Ans : _____ °

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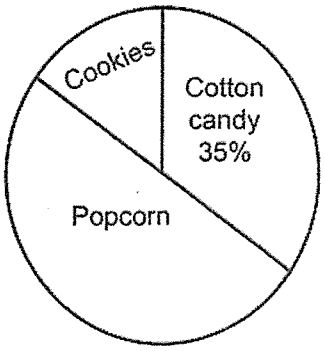
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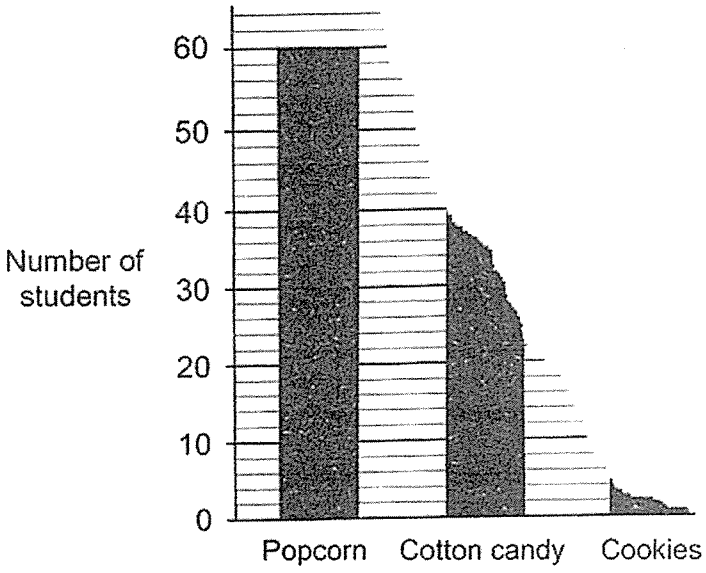
ACSJ

5

The pie chart represents the students' choices of snacks Each student chose only one type of snack. Half of the students in the class chose popcorn



The students' choices were also represented by a bar graph.
Part of the graph had been torn off.
How many students chose cookies?



Ans : _____

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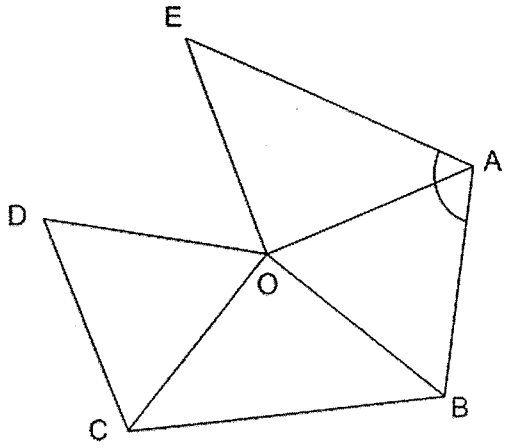
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A N

For questions **6** to **15**, show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. The number of marks available is shown in brackets [ ] at the end of each question or part question.

(40 marks)

6 In the figure below. At – BC. AOB, EOD and DOC, are identical equilateral triangles. Find ∠ FAB



Ans: _____ [3]

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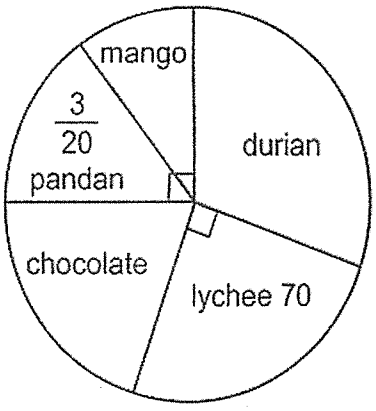
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7 The pie chart shows the favourite types of cakes of all the Primary 6 students in a school. Each student chose only one type of cake.



(a) What is the total number of students in Primary 6?

Ans : (a) _____ [1]

(b) The number of students who like chocolate cake is twice the number of students who like mango cake. How many students like chocolate cake?

Ans : (b) _____ [2]

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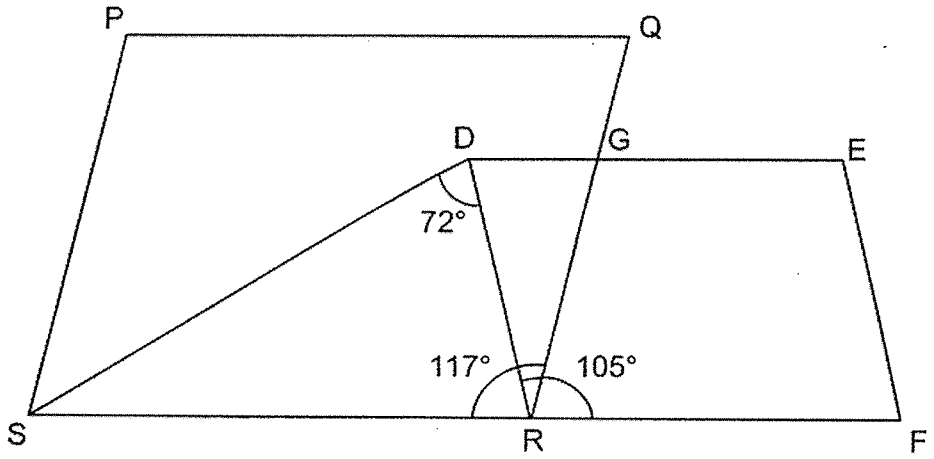
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8 In the figure below, PQRS and DEFR are parallelograms. SRF is a straight line. ∠DRF = 105°, ∠GRS = 117° and ∠SDR = 72°.



(a) Find ∠DRG.

Ans: (a)_____ ° [2]

(b) Find ∠PSD.

Ans : (b)_____ ° [2]

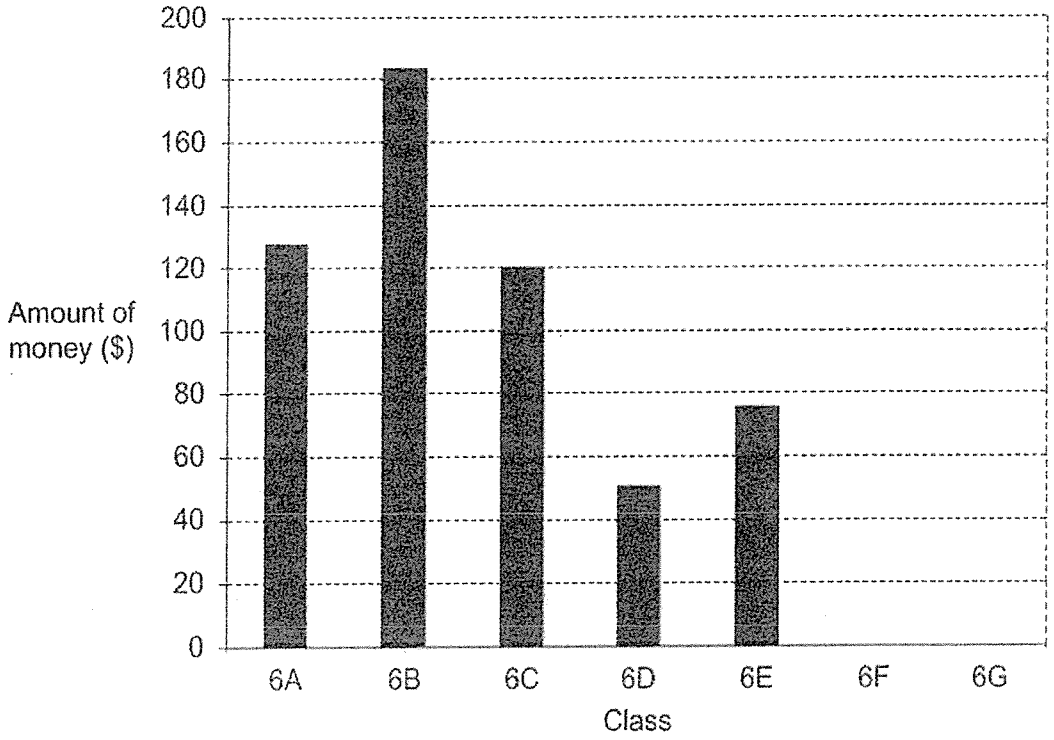
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Sub-Total :

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9 The graph shows the amount of money collected by 7 classes for charity. The bars for Class 6F and Class 6G are not shown.



(a) What was the average amount of money collected by the 5 classes, 6A to 6E?

Ans : (a) $ _____ [2]

(b) The average amount of money collected by Class 6F and Class 6G was $56 more than the average amount of money collected by Classes 6A to 6E.

Write down one possible set of values for the amount of money collected by Class 6F and Class 6G.

Ans : (b) $_____, $_____ [2]

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Please do not write in the margin.

Sub-Total :

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10 A company hired Mr Lim to deliver melons over two days. He delivered $\frac{3}{7}$ of the melons on Monday and the remaining 120 melons on Tuesday.

(a) How many melons did Mr Lim deliver in 2 days?

Ans: (a) _____ [1]

(b) The company paid Mr Lim $7 for every melon he delivered safely but charged a penalty of $2 for every melon he damaged. At the end of the two days, Mr Lim earned a total of $1344. How many melons did he damage?

Ans: _____ [3]

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Sub-Total :

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11 An electronics store has 1500 digital devices for sale. 35% of them were smartwatches and the rest were fitness trackers.

(a) How many smartwatches did the electronics store have?

Ans : (a)_____ [1]

(b) Some fitness trackers were sold. In the end, 30% of the digital devices left in the store were fitness trackers. How many fitness trackers were sold?

Ans : (b)_____ [3]

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A C S J

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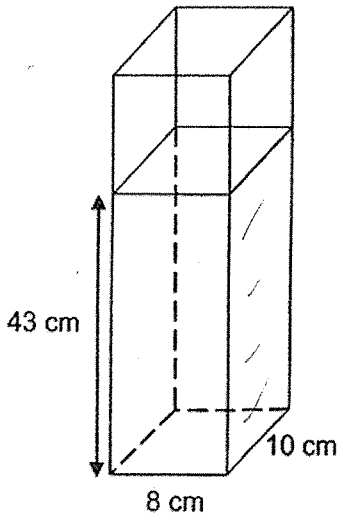
Sub-Total :

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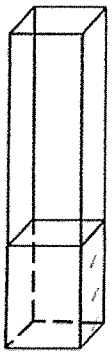
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12 G and H are two rectangular containers.

The base of Container G measures 8 cm by 10 cm and it is filled with water to a height of 43 cm. Container H has a square base of sides 5 cm and it contains 760 cm^3 of water.



Container G



Container H

Nigel poured water from Container G into Container H without spilling until the heights of the water level in both containers are the same. What is the volume of water poured into container H?

Ans : _____ cm^3 [4]

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Sub-Total :

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13 A courier company charges the following postage fees for parcels sent to Japan in a particular month.

Parcel Type	Weight category	Postage Fee
Big parcel	5 kg and above	$17
	Below 5 kg	$13
Small parcel	Below 2 kg	$ 9

The number of big parcels sent was 3 times the number of small parcels sent

$\frac{4}{9}$ of the big parcels sent weighed below 5 kg.

A total of $2132 was collected from postage fees.

(a) What fraction of the total number of parcels sent weighed 5 kg and above? Give your answer in the simplest form.

Ans : (a)_____ [1]

(b) What was the total number of parcels sent?

Ans : (b)_____ [3]

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Sub-Total :

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AS 5

14 Jasmine bought some tuna pies and chicken pies, $\frac{3}{8}$ of them were tuna pies and the rest were chicken pies. The cost of a chicken pie was \$0.50 less than the cost of a tuna pie. She spent a total of \$456 buying both tuna and chicken pies. The total cost of the chicken pies was \$24 more than the total cost of the tuna pies.

(a) What was the total cost of the tuna pies?

Ans : (a) \$_____ [1]

(b) How much did each tuna pie cost?

Ans : (b) \$_____ [4]

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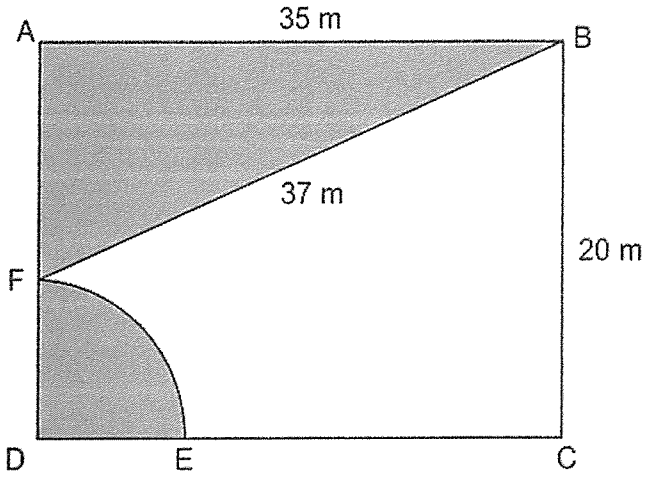
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15 The figure below is made up of a shaded right-angled triangle and quarter circle inside Rectangle ABCD. AB = 35 m, BC = 20 m and BF = 37 m. The perimeter of the shaded parts is 16 m more than the perimeter of the unshaded parts.



(a) Find the perimeter of the shaded parts. (Take $\pi = 3.14$)

Ans : _____ m [3]

(b) Find the area of the shaded parts. (Take $\pi = 3.14$)

Ans : _____ m^2 [2]

End of Paper 2

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YEAR : 2026
LEVEL : PRIMARY 6
SCHOOL : ANGLO-CHINESE SCHOOL (JUNIOR)
SUBJECT : MATHEMATICS
TERM : PRELIMINARY EXAMINATION

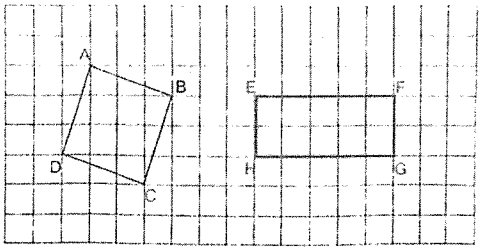
(BOOKLET A)

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

(BOOKLET B)

Q19	(a) $2.3 = 2\frac{3}{10}$ Answer: $2\frac{3}{10}$ (b) $7.2 \times 300 = 2160$ Answer: 2160	Q20	(a) $16n + 7 - 4n + 11$ $= 12n + 18$ Answer: $12n + 18$ (b) $\frac{9\times4}{2} - 4 = 18 - 4$ $= 14$ Answer: 14
Q21	$12 \times 4 = 48$ Answer: 48 cm	Q22	$\frac{1}{4} \times \frac{22}{7} \times 14^2 = 154$ Answer: 154 cm^2
Q23	Sugar used per cake = $500 \times \frac{4}{5} = 400$ g $2000 \div 500 = 4$ cakes $900 \div 400 = 2$ remainder 100 Answer: 2 cakes	Q24	Largest increase: $48 - 26 = 22$ Answer: August to September
Q25	Blue = $\frac{3}{10} = \frac{6}{20}$ Orange = $\frac{3}{20}$ Pink = $\frac{20-6-3}{20} = \frac{11}{20}$ Answer: $\frac{11}{20}$	Q26	$36x = 30(x + 9)$ $36x = 30x + 270$ $6x = 270$ $x = 45$ Answer: 45 marbles

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Q27	240 × 4 = 960 960 – 170 – 200 = 590 Largest possible number = 590 – 100 = 490 490 – 100 = 390 Answer: 390	Q28	Area of triangle RST = $6 \times 6 \times \frac{1}{2} = 18$ cm² Area of shaded square = $18 \times \frac{4}{9}$ = 8 cm² Answer: 8 cm²
Q29	Breadth = 3 cm Length = 3 × 3 = 9 cm Total exposed length = 4 × 9 + 8 × 3 = 36 + 24 = 60 Answer: 60 cm	Q30	

PAPER 2

Q1	Let the number of boxes be n. Total pencils = 8n < 50 After keeping 7 pencils, 8n – 7 must be divisible by 5. n = 4, so 8 × 4 = 32 Answer: 32 pencils	Q2	10 ÷ 4 = 2 remainder 2 10y + 2 = 72 10y = 70 y = 7 Answer: 7
Q3	Side lengths: √36 = 6 cm and √64 = 8 cm Shaded area = $8 \times 8 \times \frac{1}{2} - 6 \times 6 \times \frac{1}{2}$ = 32 – 18 = 14 Answer: 14 cm²	Q4	∠CAB = 180° – 112° – 28° = 40° x = 180° – 67° – 40° = 73° Answer: 73°
Q5	Total students = 60 ÷ 50% = 120 Cookies = 100% – 50% – 35% = 15% 120 × 15% = 18 Answer: 18 students	Q6	∠EOA = $\frac{360°-60°-60°-60°}{2}$ = 90° ∠EAO = $\frac{180°-90°}{2}$ = 45° ∠EAB = 45° + 60° = 105° Answer: 105°

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Q7	(a) Lychee represents 90° and 70 students. 360° ÷ 90° = 4 70 × 4 = 280 Answer: 280 students (b) Pandan = $280 \times \frac{3}{20} = 42$ Mango = 70 − 42 = 28 Chocolate = 28 × 2 = 56 Answer: 56 students	Q8	(a) ∠DRG = 117° + 105° − 180° = 42° Answer: 42° (b) ∠DRS = 117° − 42° = 75° ∠DSR = 180° − 75° − 72° = 33° ∠PSD = 180° − 117° − 33° = 30° Answer: 30°
Q9	(a) $\frac{128+184+120+52+76}{5} = \frac{560}{5}$ = 112 Answer: $112 (b) Required average = 112 + 56 = 168 Required total = 168 × 2 = 336 One possible pair: 188 + 148 = 336 Answer: $188 and $148	Q10	(a) Remaining fraction = $1 - \frac{3}{7} = \frac{4}{7}$ $\frac{4}{7}$ = 120 Total = 120 ÷ 4 × 7 = 210 Answer: 210 melons (b) 210 × $7 = $1470 $1470 − $1344 = $126 Loss for each damaged melon = $7 + $2 = $9 $126 ÷ $9 = 14 Answer: 14 melons
Q11	(a) 1500 × 35% = 525 Answer: 525 smartwatches (b) Initial fitness trackers = 1500 − 525 = 975 Let x be the number of fitness trackers sold. 975 − x = 30%(1500 − x) 975 − x = 450 − 0.3x 525 = 0.7x x = 750 Answer: 750 fitness trackers	Q12	Water in G = 8 × 10 × 43 = 3440 cm³ Total water = 3440 + 760 = 4200 cm³ Combined base area = 8 × 10 + 5 × 5 = 105 cm² Common height = 4200 ÷ 105 = 40 cm Water poured = (43 − 40) × 8 × 10 = 240 cm³ Answer: 240 cm³

b) 70% → 525

30% → 525 × $\frac{3}{7}$

= 225

100% − 35% = 65%

65% × 1500 = 975

975 − 225 = 750

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Q13	Let the number of small parcels be x. Number of big parcels = 3x (a) Big parcels weighing at least 5 kg $= \frac{5}{9} \times 3x = \frac{5x}{3}$ Required fraction $= \frac{5x}{3} + 4x = \frac{5}{12}$ Answer: $\frac{5}{12}$ (b) Total postage $= 17(\frac{5x}{3}) + 13(\frac{4x}{3}) + 9x$ $= \frac{164x}{3} = 2132$ x = 39 Total parcels = 4x = 156 Answer: 156 parcels	Q14	(a) Total cost = (\$456 – \$24) ÷ 2 = \$216 = \$216 Answer: \$216 (b) Ratio 3 : 5 : 5 Cost per ratio unit: tuna = \$216 ÷ 3 = \$72 Cost per ratio unit: chicken = \$240 ÷ 5 = \$48 Difference = \$72 – \$48 = \$24 \$24 ÷ \$0.50 = 48 pies per ratio unit Cost of each tuna pie = \$72 ÷ 48 = \$1.50 Answer: \$1.50
Q15	(a) AF $= \sqrt{37^2 - 35^2} = 12$ m FD = 20 – 12 = 8 m Quarter-circle arc $= \frac{1}{4} \times 2 \times 3.14 \times 8 =$ 12.56 m Perimeter = 12 + 35 + 37 + 12.56 + 8 + 8 = 112.56 m Answer: 112.56 m (b) Triangle area $= \frac{1}{2} \times 35 \times 12 = 210$ m^2 Quarter-circle area $= \frac{1}{4} \times 3.14 \times 8^2 =$ 50.24 m^2 Total shaded area = 210 + 50.24 = 260.24 m^2 Answer: 260.24 m^2		