NAN HUA PRIMARY SCHOOL

PRELIMINARY EXAMINATION 2026

PRIMARY SIX

MATHEMATICS

PAPER 1

(BOOKLET A)

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

INSTRUCTIONS TO CANDIDATES

1. Write your name and index number in the space provided.
2. Do not turn over the page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Shade your answers in the Optical Answer Sheet (OAS) provided.
6. The use of calculators is **NOT** allowed.

Name : _____ ( )

Form Class : 6_____ **Teaching Group: 6M**_____

Date : 20 August 2026

This booklet consists of 10 printed pages.

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.

(26 marks)

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1 What is the value of digit 6 in 26 145?

(1) 60

(2) 600

(3) 6000

(4) 60 000

2 Express $1\frac{3}{50}$ as a decimal.

(1) 1.03

(2) 1.06

(3) 1.30

(4) 1.60

3 Round 123.456 to 2 decimal places.

(1) 123.40

(2) 123.45

(3) 123.46

(4) 123.50

4 Which of the following is a factor of both 18 and 24?

(1) 12

(2) 9

(3) 6

(4) 4

5 The ratio of the number of squares to the number of triangles is 1 : 4.
The ratio of the number of squares to the number of circles is 2 : 3.
What is the ratio of the number of triangles to the number of circles?

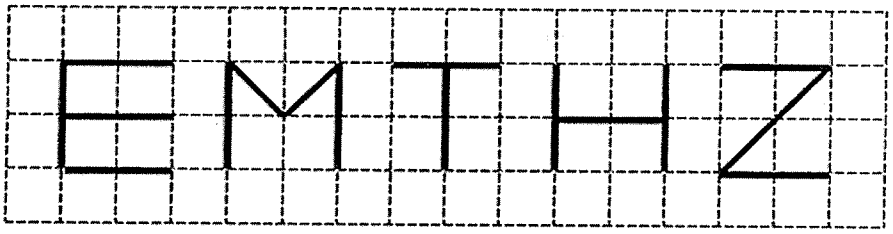
(1) 3 : 4

(2) 3 : 8

(3) 4 : 3

(4) 8 : 3

6 Five letters are drawn on the square grid.



How many of the letters have both parallel and perpendicular lines?

(1) 1

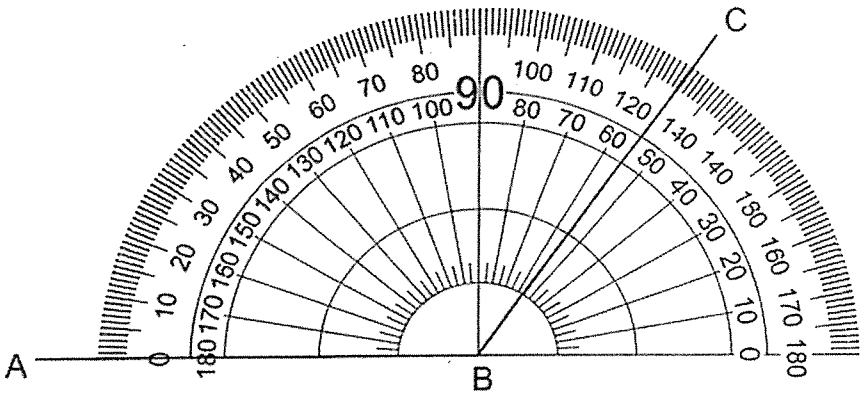
(2) 2

(3) 3

(4) 4

(Go on to the next page)

7 What is the size of ∠ABC?



(1) 55°

(2) 65°

(3) 125°

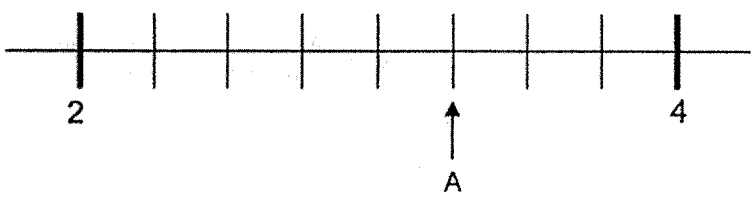
(4) 135°

8 Arrange the fractions from the largest to the smallest:

$1\frac{1}{3}$	$1\frac{1}{9}$	$\frac{5}{3}$

	Largest				Smallest
(1)	$1\frac{1}{9}$	,	$1\frac{1}{3}$	,	$\frac{5}{3}$
(2)	$1\frac{1}{9}$	,	$\frac{5}{3}$	,	$1\frac{1}{3}$
(3)	$\frac{5}{3}$	,	$1\frac{1}{9}$	,	$1\frac{1}{3}$
(4)	$\frac{5}{3}$	,	$1\frac{1}{3}$	,	$1\frac{1}{9}$

9 In the number line, what is the value represented by A?



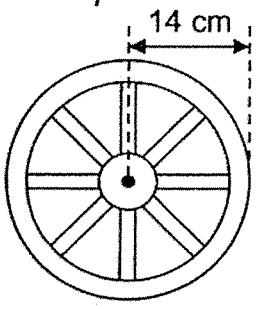
(1) $2\frac{5}{8}$

(2) $3\frac{1}{8}$

(3) $3\frac{1}{2}$

(4) $3\frac{1}{4}$

10 A wheel has a radius of 14 cm. What is the distance covered by the wheel when it makes 10 complete turns? (Take $\pi = \frac{22}{7}$)



(1) 44 cm

(2) 88 cm

(3) 440 cm

(4) 880 cm

(Go on to the next page)

11 There are 400 people in a cinema.180 of them are children.

100 of them are men and the rest of them are women.

What percentage of the people are women?

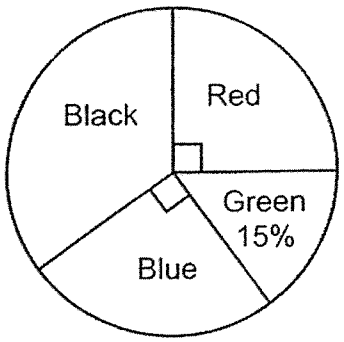
(1) 25%

(2) 30%

(3) 45%

(4) 55%

12 The pie chart shows the favourite colours of a group of children.



The number of children who like red is 20 more than the number of children who like green. What is the number of children who like black?

(1) 30

(2) 50

(3) 70

(4) 130

13 Nelly had a packet of flour. She used $\frac{1}{5}$ of the flour to make cupcakes and $\frac{1}{2}$ kg of flour to make muffins. After that, she had 100 g of flour left.

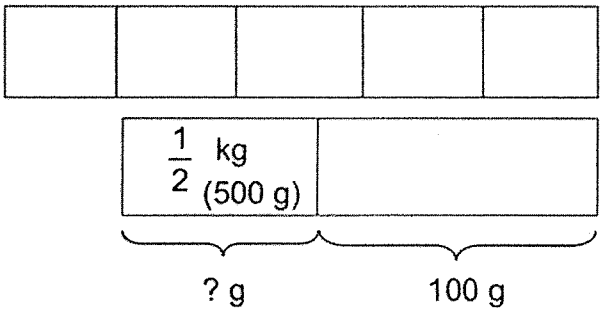
How much flour did she have at first?

(1) 250 g

(2) 500 g

(3) 750 g

(4) 800 g



14 The following tables show Johnson's booking schedule of a badminton court at Active SG sports centre on two days and the fees for booking a badminton court.

Johnson's booking schedule	
Day	**Time**
Tuesday	5:00 pm to 7:00 pm
Saturday	9:00 am to 12 noon

Booking rate		
Weekday	Before 6:00 pm	$3 per hour
	After 6:00 pm	$8 per hour
Weekends	All day	

How much did Johnson pay in total for his booking on Tuesday and Saturday?

(1) $20

(2) $30

(3) $35

(4) $40

(Go on to the next page)

15 Jane sold 12 shirts. She earned $\$n$ for each shirt she sold. She earned an additional \$3 for every 5 shirts sold. How much did she earn altogether?

(1) $\$ (12n + 3)$

(2) $\$ (12n + 6)$

(3) $\$ (12n + 9)$

(4) $\$ (12n + 15)$

16 The table shows the price of food items in a fast-food restaurant.

Food	Price
1 piece of chicken and 1 piece of fish	\$6
3 pieces of chicken	\$7
2 pieces of fish	\$7

Ali wants to buy exactly 14 pieces of chicken and 14 pieces of fish.
What is the least amount of money Ali has to pay?

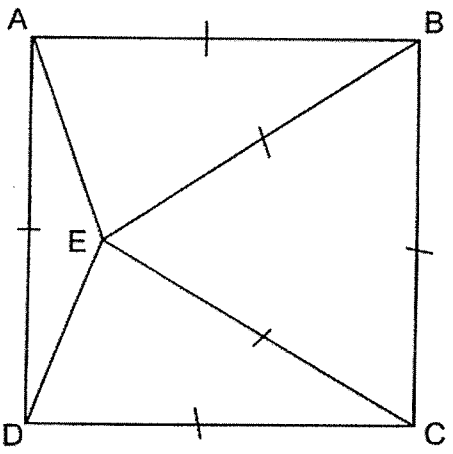
(1) \$76

(2) \$82

(3) \$84

(4) \$94

17 ABCD is a square. BEC is an equilateral triangle.



Find ∠AEB.

(1) 30°

(2) 60°

(3) 75°

(4) 80°

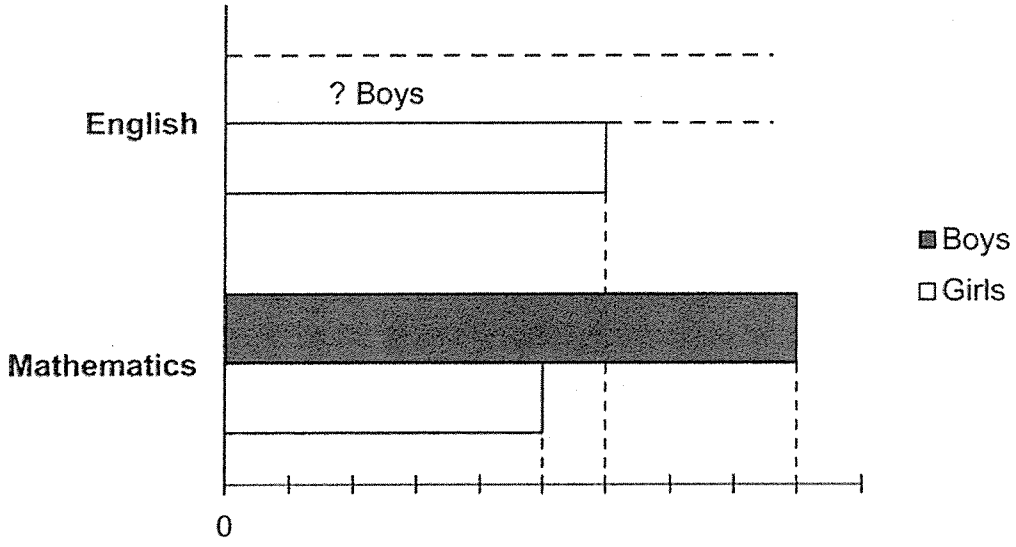
(Go on to the next page)

18 A survey was conducted on Primary 6 students to find out whether students prefer English or Mathematics. The picture graph and bar graph below show which subject the students prefer.

The representation for the symbol in the picture graph is not shown.

Our Favourite Subject							
English	🧍	🧍	🧍	🧍	🧍		
Mathematics	🧍	🧍	🧍	🧍	🧍	🧍	🧍
Each 🧍 stands for ? children.							

The number of boys who prefer English is not shown.



What fraction of the students are boys who prefer English?

(1) $\frac{1}{6}$

(2) $\frac{1}{3}$

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

(4) $\frac{4}{9}$

(Go on to Booklet B)

NAN HUA PRIMARY SCHOOL

PRELIMINARY EXAMINATION 2026

PRIMARY SIX

MATHEMATICS

PAPER 1

(BOOKLET B)

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

INSTRUCTIONS TO CANDIDATES

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

Marks Obtained

Section		Maximum Marks	Actual Marks
Paper 1	Booklet A	26	
	Booklet B	24	
Paper 2		50	
Total		100	

Name : _____ ( )

Form Class : 6_____ **Teaching Group: 6M**_____

Date : 20 August 2026

This booklet consists of 9 printed pages and 1 blank page.

Questions **19** to **30** carry 2 marks each. Show your workings 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) Find the value of 9205 – 48

Ans: (a) _____

(b) Find the value of 160 × 25

Ans: (b) _____

20 (a) Find the value of $\frac{2}{3} - \frac{1}{4}$

Ans: (a) _____

(b) Find the value of $\frac{5}{6} \div 10$

Ans: (b) _____

Please do not write in the margin

21 The table below show the start time and duration of three movies at a cinema on the same day.

Movie	Starts at	Duration
Movie 1	2:00 pm	2 h 30 min
Movie 2	2:15 pm	2 h 10 min
Movie 3	2:40 pm	1 h 35 min

(a) What time will Movie 2 end? Express your answer using the 24-hour clock.

Ans: (a) _____

(b) Which movie will end the latest?

Ans: (b) Movie_____

22 Find the value of the following when y = 4.

(a) $3y - 2 + 8y$

Ans: (a) _____

(b) $\frac{5y}{2} + y$

Ans: (b) _____

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23 **(a)** Figure A and B are nets of solids.

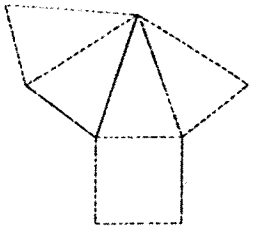


Figure A

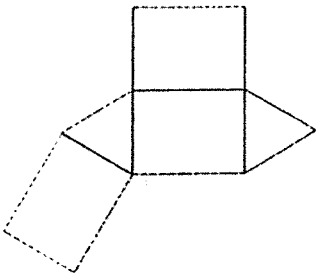
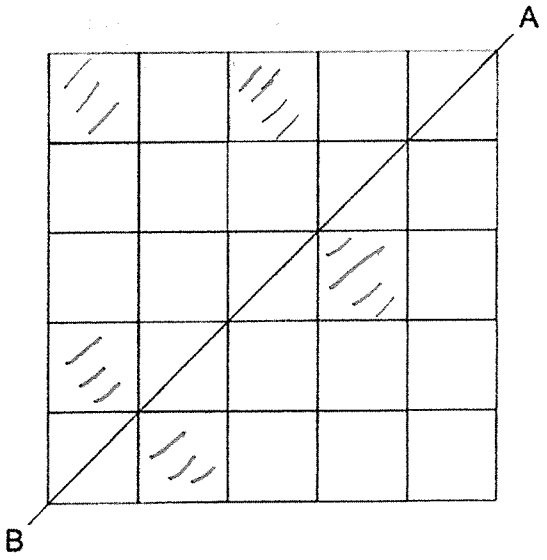


Figure B

Which figure is a net of a pyramid?

Ans: (a) Figure _____

(b) There are 5 shaded squares in the figure. Shade 3 more squares to form a symmetric figure with AB as the line of symmetry.



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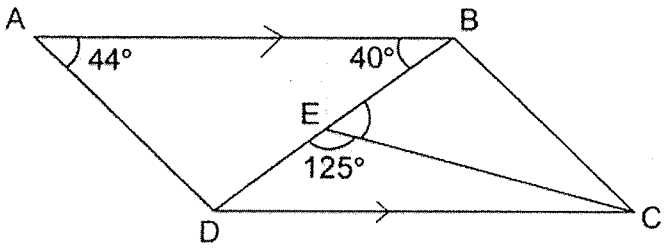
24 ABCD is a parallelogram. DEB is a straight line.
$\angle BAD = 44°$, $\angle ABD = 40°$ and $\angle DEC = 125°$.



Find $\angle BCE$.

Ans: _____ °

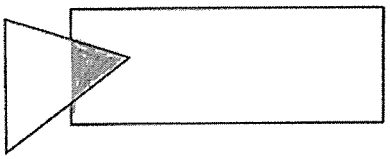
25 Cookies are sold in boxes of 12 or 20. Mdm Lee wants to buy exactly 108 cookies. What is the least number of boxes she has to buy?

Ans: _____

Please do not write in the margin

(Go on to the next page)

26 The figure below is made up of a triangle and a rectangle. The area of the triangle is $\frac{1}{4}$ of the area of the rectangle. $\frac{1}{4}$ of the triangle is shaded. What is the ratio of the shaded area to the area of the figure?



Ans: _____

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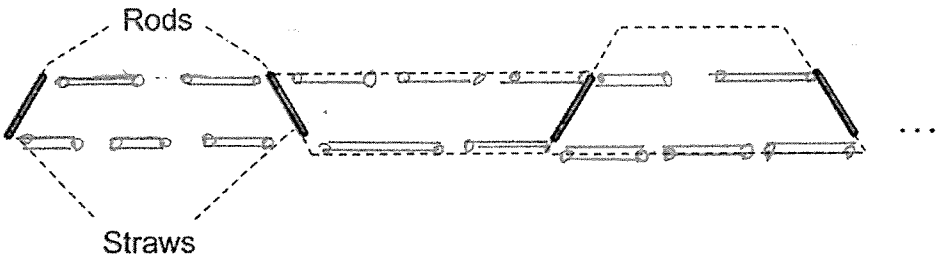
27 Jean used rods and straws to form a pattern. Part of the pattern is shown in the figure below.



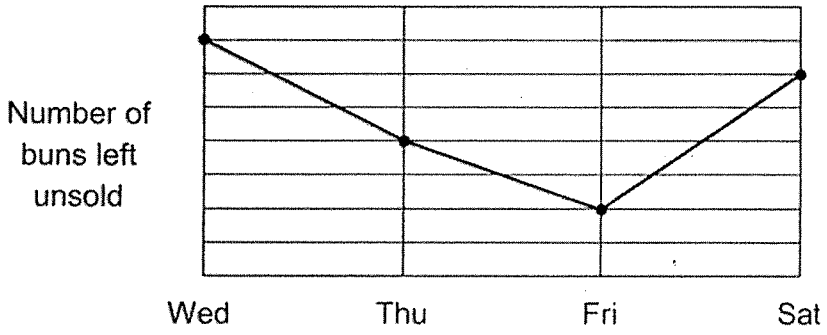
She used a total of 67 rods and straws. How many rods did she use?

Ans: _____

Please do not write in the margin

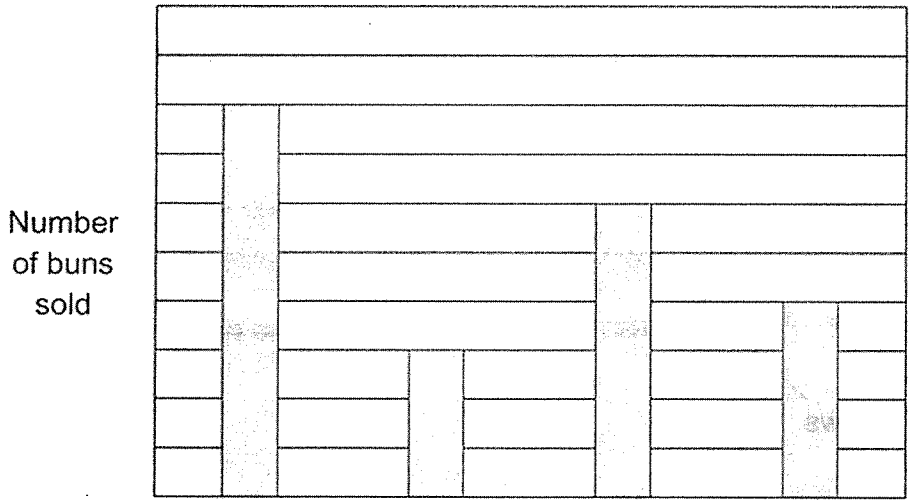
28 A baker baked the same number of buns every day.

The line graph shows the number of buns left unsold at the end of each day from Wednesday to Saturday.



The bar graph shows the number of buns sold each day from Wednesday to Saturday.

Label the graph by writing **W** for Wed, **T** for Thu, **F** for Fri and **S** for Sat.



Ans: _____ _____ _____ _____

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29 Adam painted all the faces of the square block in Figure 1 and cut it into 1 smaller square block A and 4 identical blocks B in Figure 2. The shaded area in Figure 2 is 9 cm^2. Find the area of square block A that is not painted.

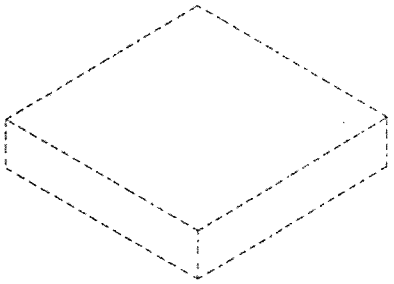


Figure 1

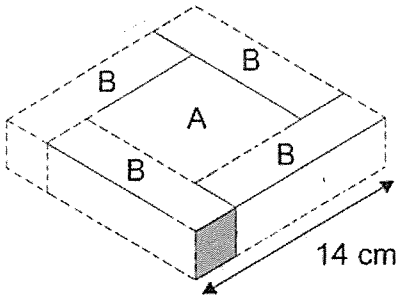


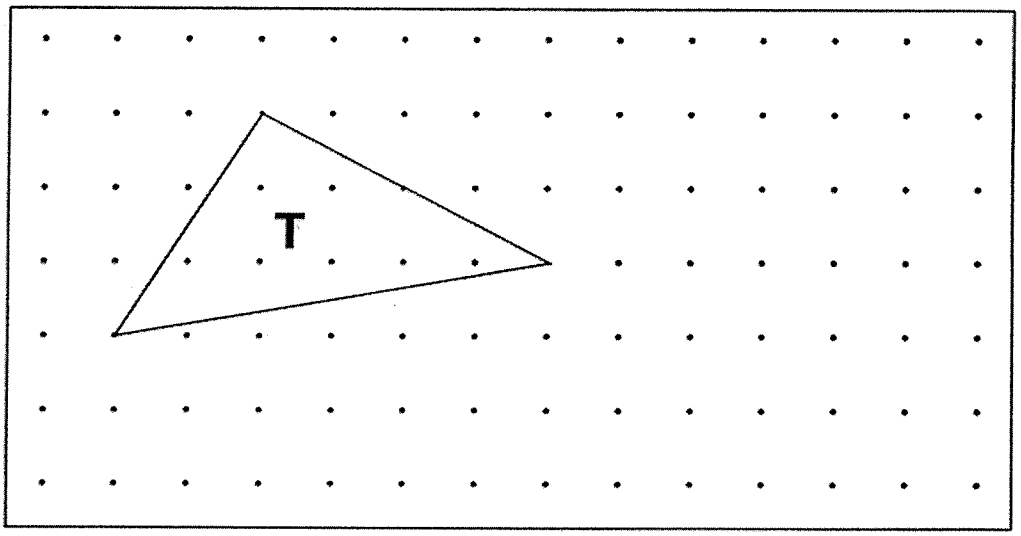
Figure 2

Please do not write in the margin

Ans: _____ cm^2

30 A triangle **T** is drawn by joining dots on the square grid below with 3 straight lines. Draw a rectangle with the same area as triangle T on the square grid such that it does not overlap with triangle T.

Label the rectangle **R**.



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End of Paper

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NAN HUA PRIMARY SCHOOL

PRELIMINARY EXAMINATION 2026

PRIMARY SIX

MATHEMATICS

PAPER 2

Time: 1 hour 20 minutes

INSTRUCTIONS TO CANDIDATES

1. Write your name and index number in the space provided.
2. Do not turn over the page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Use dark blue or black ball point pen to write your answers in the space provided for each question.
6. Do not use correction tape/ fluid/ highlighter.
7. The use of calculators is allowed.

Marks Obtained

Section	Maximum Marks	Actual Marks
Paper 2	50	

Name : _____ ( )

Form Class : 6 _____ **Teaching Group: 6M**_____

Date : 20 August 2026

This booklet consists of 15 printed pages and 1 blank page.

Questions **1** to **5** carry 2 marks each. Show your working clearly and write your answers in the space provided. For questions which require units, give your answers in the units stated. (10 marks)

1 Samuel spent $\frac{1}{7}$ of his study time on English. He then spent $\frac{1}{3}$ of the remaining study time on Science. He spent the rest of his study time on Mathematics. What fraction of his study time did Samuel spend on Mathematics? Give your answer in its simplest form.

Ans: _____

2 Anqi and Benny had 92 stickers altogether. Anqi and Charul had 50 stickers altogether. The ratio of the number of stickers Benny had to the number of stickers Charul had was 5 : 2. How many stickers did Benny have?

Ans: _____

Please do not write in the margin.

3 Sheena had 3 pails of sand and each pail contained 1 kg 75 g of sand. She then repacked all the sand into 5 bags. How many kilograms of sand was there in each bag?

Ans: _____ kg

4 4 pumpkins had an average mass of 3.25 kg. When a fifth pumpkin was added, the average mass of all 5 pumpkins became 3.04 kg. What was the mass of the fifth pumpkin?

Ans: _____ kg

Please do not write in the margin.

5 Bulb A lights up every 6 minutes. Bulb B lights up every 9 minutes. Both bulbs light up together at 09 00. How many times will Bulb A light up without Bulb B lighting up from 09 00 to 09 55?

Please do not write in the margin.

Ans: _____

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 Firdaus and Melyi had the same amount of money at first. Firdaus bought 1 adult and 2 child tickets. He had $10 left. Melyi wanted to buy 3 adult and 2 child tickets, but she was short of $26. A child ticket costs $10. How much money did Firdaus have at first?

Ans: $_____ [3]

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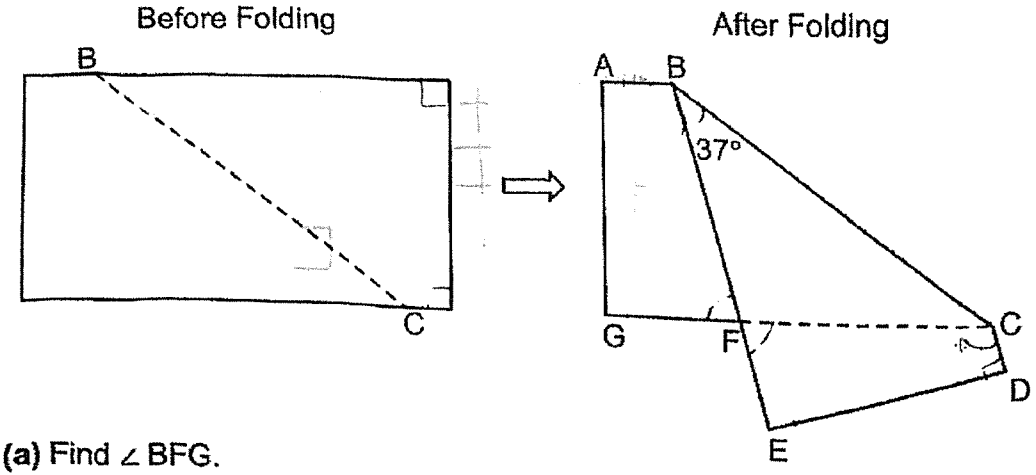
7 A rectangular piece of paper is folded along the dotted line BC as shown.



(a) Find ∠BFG.

Ans: (a) _____° [1]

(b) Find ∠FCD.

Ans: (b) _____° [2]

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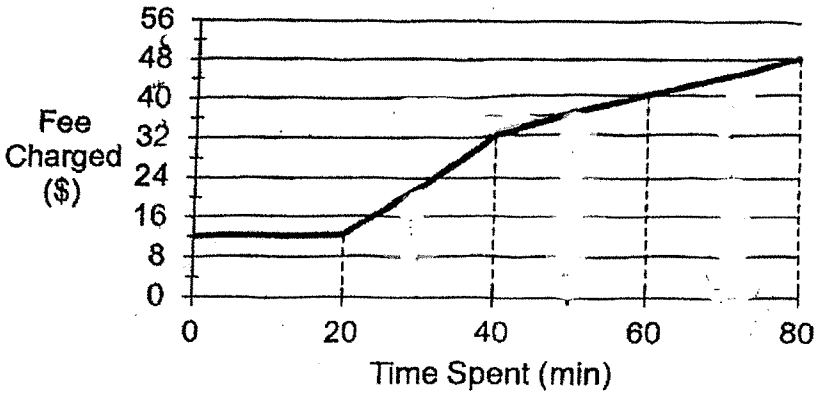
8 The graph shows the fee a trampoline park charges based on the time spent by a visitor in the park.



(a) How much would the trampoline park charge for 10 minutes spent in the park?

Ans: (a) $ _____ [1]

(b) Sarah paid $40 during her visit. How long did she spend at the trampoline park?

Ans: (b) _____ h [1]

(c) Afiq and Wei Teng spent 80 minutes in the trampoline park altogether. If each of them spent at least 10 minutes in the park, what is the smallest amount of fee they paid in total?

Ans: (c) $ _____ [2]

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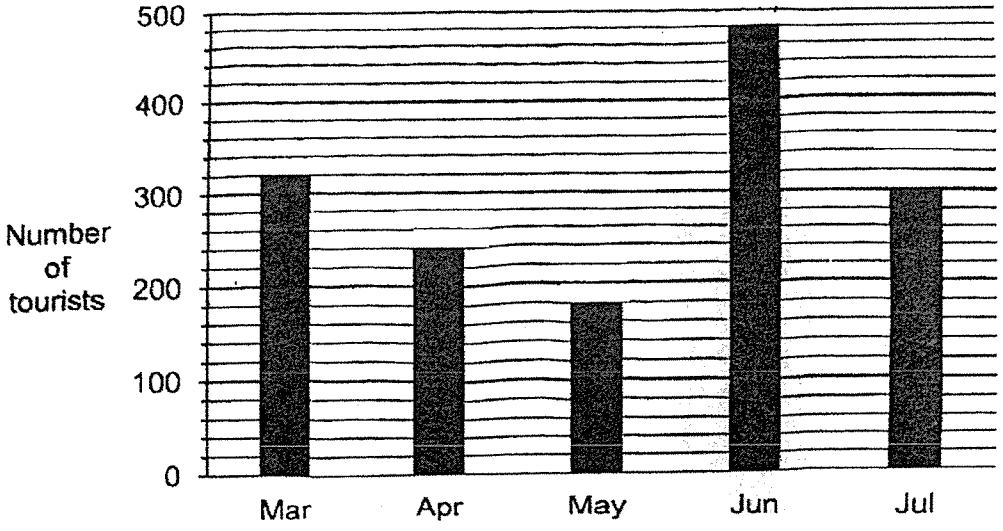
9 The bar graph shows the number of tourists visiting Gardenia Land from March to July.



(a) What is the average number of tourists visiting Gardenia Land from March to June?

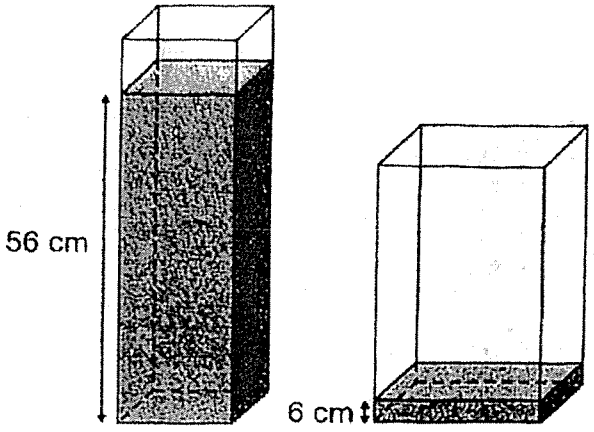
Ans: (a) _____ [1]

(b) What is the percentage decrease in the number of tourists visiting Gardenia Land from June to July?

Ans: (b) _____ % [2]

ease do not write in the margin.

10 The figure shows the amount of water in two rectangular containers, P and Q, at first. The amount of water in Container P was 4 times that of the water in Container Q. After some water was poured from Container P into Container Q, the water level in both containers were of the same height.



(a) Find the base area of Container Q.

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

(b) Find the decrease in water level of Container P.

Ans: (b) _____ cm [2]

Please do not write in the margin.

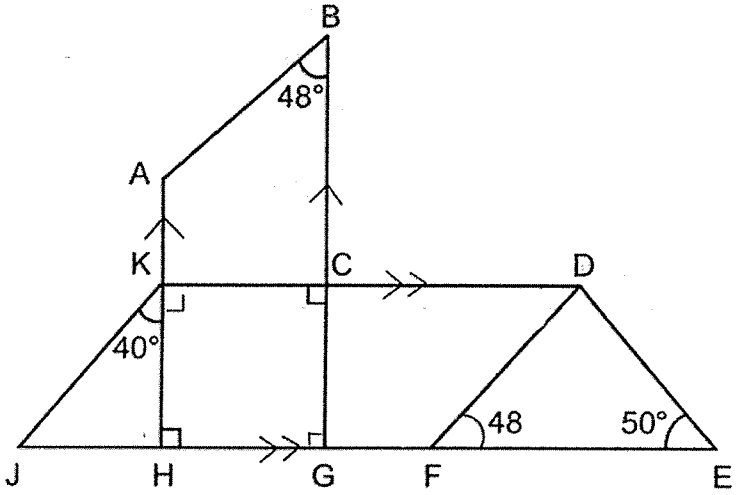
11 The total cost of a fan and an air purifier before a sale was $510. During the sale, the fan was sold at a 10% discount and the air purifier at a 7% discount. The amount of discount on each item was the same.
What was the total cost of the fan and the air purifier during the sale?

Fan	10%
Air purifier	7%

} $510

Ans: $ _____ [4]

12 HABG and HFDK are identical trapeziums. AH is parallel to BG and KD is parallel to HF. JHGF is a straight line.



(a) Find ∠GFD.

Ans: (a) _____° [1]

(b) The figure above is not drawn to scale. Each of the statements 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
KCGH is a square.			
JKDF is a parallelogram.			
FDE is an isosceles triangle.			

[3]

Please do not write in the margin.

13 (a) Figure 1 below is formed by overlapping two identical semicircles. O is the mid-point of AB and AB = 8 cm. Find the shaded area in Figure 1. (Take $\pi = 3.14$)

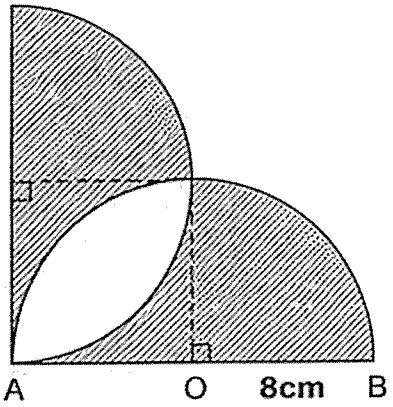


Figure 1

Please do not write in the margin.

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

(b) Figure 2 below is made up of a large quarter circle, three identical small quarter circles and two identical semicircles. The radius of each small quarter circle is 8 cm. Find the total shaded area in Figure 2. (Take $\pi = 3.14$)

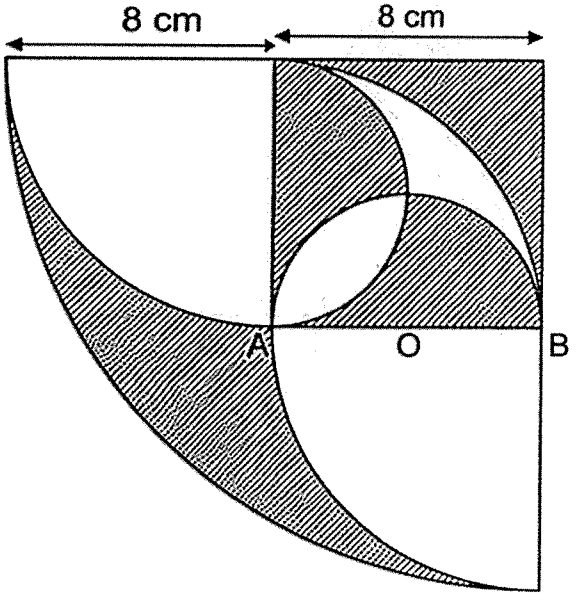


Figure 2

Please do not write in the margin.

Ans: (b) _____ cm^2 [3]

14 Dan spent a total of $660 to buy some apples and pears. He spent $300 more on apples than on pears.

(a) Find the amount of money he spent on apples.

Ans: (a) $ _____ [2]

(b) He bought 4 times as many apples as pears. Each pear costs 30 cents more than each apple. Find the cost of an apple.

Ans: (b) $ _____ [3]

15 Four identical trapeziums are used to form Figure 1. The perimeter of Figure 1 is 144 cm. Trapeziums A and D are overlapped to form Figure 2. The perimeter of the shaded parallelogram in Figure 2 is 54 cm.

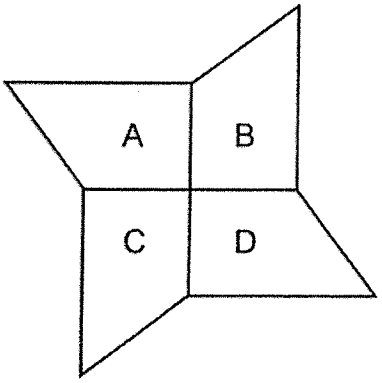


Figure 1

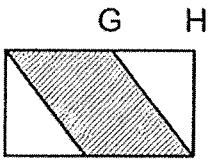
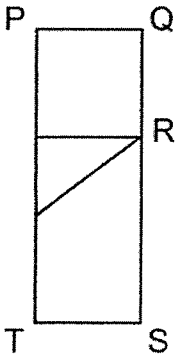


Figure 2

(a) Find the length of GH.

Ans: (a) _____ cm [2]

(b) Trapeziums B and C are joined to form rectangle PQST. The length of QR is $\frac{4}{7}$ the length of PU. Find the area of rectangle PQST.



Ans: (b) _____ cm^2 [3]

End of Paper

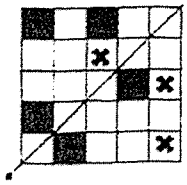
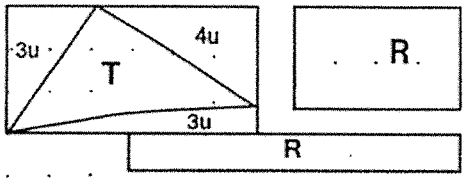
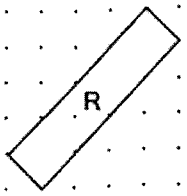
(Go on to the next page)

YEAR : 2026
LEVEL : PRIMARY 6
SCHOOL : NAN HUA PRIMARY SCHOOL
SUBJECT : MATHEMATICS
TERM : PRELIMINARY EXAMINATION

(PAPER 1 — BOOKLET A)

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

(PAPER 1 — BOOKLET B)

Q19	(a) 9205 − 48 = 9157 (b) 160 × 25 = 4000	Q25	3 × 20 + 4 × 12 = 108 3 + 4 = 7 boxes
Q20	(a) $\frac{2}{3} - \frac{1}{4} = \frac{5}{12}$ (b) $\frac{5}{6} \div 10 = \frac{1}{12}$	Q26	Triangle : shaded triangle : rectangle 3 : 1 : 16 Total area = 3 + 16 = 19 Shaded area : total area = 1 : 19
Q21	(a) 2:00 p.m. + 2 h 30 min = 16:25 (b) Movie 1	Q27	(67 − 7) ÷ 6 = 10 10 + 2 = 12 rods
Q22	(a) 3(4) − 2 + 8(4) = 42 (b) $\frac{5(4)}{2} + 4 = 14$	Q28	F, W, T, S
Q23	(a) Figure A (b) 	Q29	8 × 3 × 4 = 96 cm²
Q24	180° − 44° − 40° = 96° 180° − 125° = 55° 180° − 96° − 55° = 29°	Q30	18 − 3 − 3 − 4 = 8 square units  

PAPER 2

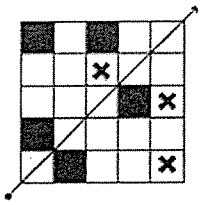
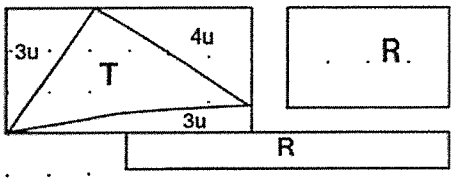
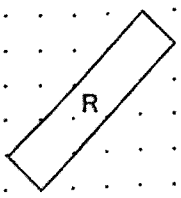
Q1	$1 - \frac{1}{7} = \frac{6}{7}$ $1 - \frac{1}{3} = \frac{2}{3}$ $\frac{2}{3} \times \frac{6}{7} = \frac{4}{7}$ Answer: $\frac{4}{7}$	Q2	92 – 50 = 42 5 – 2 = 3 3u = 42 u = 14 5u = 70 Answer: 70 stickers
Q3	1 kg 75 g = 1.075 kg 3 × 1.075 kg = 3.225 kg 3.225 kg ÷ 5 = 0.645 kg Answer: 0.645 kg	Q4	4 × 3.25 kg = 13 kg 5 × 3.04 kg = 15.2 kg 15.2 kg – 13 kg = 2.2 kg Answer: 2.2 kg
Q5	Multiples of 6 from 0 to 55: 0, 6, 12, 18, 24, 30, 36, 42, 48, 54 Not multiples of 9: 6, 12, 24, 30, 42, 48 Answer: 6 multiples	Q6	2 adult tickets = \$10 + \$26 = \$36 1 adult ticket = \$36 ÷ 2 = \$18 \$18 + 2 × \$10 + \$10 = \$48 Answer: \$48
Q7	(a) ∠BFG = 37° + 37° = 74° (b) ∠FCD = 180° – 74° = 106°	Q8	(a) \$12 (b) 60 min = 1 h (c) \$12 + \$40 = \$52
Q9	(a) 320 + 240 + 180 + 480 = 1220 1220 ÷ 4 = 305 Answer: 305 tourists (b) 480 – 300 = 180 Percentage decrease = $\frac{180}{480} \times 100\% = 37.5\%$ Answer: 37.5%	Q10	(a) 56 × 12 = 672 cm^3 672 ÷ 4 = 168 cm^3 168 ÷ 6 = 28 cm^2 Answer: 28 cm^2 (b) 168 × 5 = 840 cm^3 12 + 28 = 40 cm^2 840 ÷ 40 = 21 cm 56 – 21 = 35 cm Answer: 35 cm
Q11	Air purifier original : discount = 100 : 7 Fan original : discount = 10 : 1 = 70 : 7 100u + 70u = 170u 170u = \$510; u = \$3 Sale total = (93u + 63u) = 156u 156 × \$3 = \$468 Answer: \$468	Q12	(a) ∠GFD = 180° – 48° = 132° (b) KCGH is a square — True JKDF is a parallelogram — False FDE is an isosceles triangle — Not possible to tell

Q13	(a) OB = 8 ÷ 2 = 4 cm Shaded area = 4 × 4 × 2 = 32 cm² Answer: 32 cm² (b) $\frac{1}{4} \times 3.14 \times 16^2 = 200.96$ cm² $200.96 - \frac{3}{4} \times 3.14 \times 8^2 = 50.24$ cm² 50.24 + 32 = 82.24 cm² Answer: 82.24 cm²	Q14	(a) \$660 + \$300 = \$960 \$960 ÷ 2 = \$480 Answer: \$480 (b) Apples amount = \$480 $\frac{1}{4} \times$ \$480 = \$120 \$180 – \$120 = \$60 \$60 ÷ \$0.30 = 200 pears \$180 ÷ 200 = \$0.90 \$0.90 – \$0.30 = \$0.60 Answer: \$0.60 per pear
Q15	(a) Long side + slant side = 144 ÷ 4 = 36 cm Short side + slant side = 54 ÷ 2 = 27 cm Long side – short side = 36 – 27 = 9 cm Answer: GH = 9 cm (b) 7u – 4u = 9 cm 3u = 9 cm; u = 3 cm QR = 4u = 12 cm PU = 7u = 21 cm PT = 12 + 21 = 33 cm Area of PQST = 12 × 33 = 396 cm² Answer: 396 cm²		

Prelim Answer Keys for students

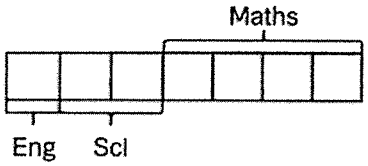
Name: _____

Paper 1 Booklet B

19	(a) **9157** (b) **4000**	25	Using guess and check, 3 × 20 + 4 × 12 = 108 3 + 4 = 7
20	(a) $\frac{5}{12}$ (b) $\frac{1}{12}$	26	UT: ST : R 3 : 1 : 16 Total area: 3 + 16 = 19 1:19
21	(a) 16 25 (b) Movie 1	27	Method 1: (67 – 7) ÷ 6 = 10 10 + 2 = 12 Method 2: (67 – 1) ÷ 6 = 11 11 + 1 = 12
22	(a) 42 (b) 14	28	F, W, T, S
23	(a) Figure A (b) 	29	8 x 3 x 4 = 96
24	Method 1 180° - 44° - 40° = 96° (EBC) 180° - 125° = 55° (BEC) 180° - 96° - 55° = 29° Method 2 180° - 125° - 40° = 15° (ECD) 44° - 15° = 29°	30	18 – 3 – 3 – 4 = 8  

Prelim Answer Keys for students

Paper 2

1.	Method 1 $1 - \frac{1}{7} = \frac{6}{7}$ $1 - \frac{1}{3} = \frac{2}{3}$ $\frac{2}{3} \times \frac{6}{7} = \frac{4}{7}$ Method 2 $\frac{1}{3} = \frac{2}{6}$  Ans: $\frac{4}{7}$	6.	Method 1 2 adults = \$10 + \$26 = \$36 1 adult = \$36 ÷ 2 = \$18 Amt of money = \$18 + 2 x \$10 + \$10 = **\$48** Method 2 2 adults = \$10 + \$26 = \$36 1 adult = \$36 ÷ 2 = \$18 Amt of money = \$18 x 3 + 2 x \$10 - \$26 = **\$48**
2.	92 – 50 = 42 5 – 2 =3 3u = 42 1u = 42 ÷ 3 = 14 5u = 14 x 5 = **70**	7.	(a) ∠BFG = 37 + 37 = **74°** (b) ∠FCD = 180 - 74 = **106°**
3.	1 kg 75 g = 1.075 kg 3 x 1.075 kg = 3.225 kg 3.225kg + 5 = **0.645 kg**	8.	(a) \$12 (b) 60 min = 1h (c) Smallest amount fee occurs when they spend 20min and 60min respectively. \$12 + \$40 = \$52
4.	4 x 3.25 kg = 13 kg 5 x 3.04 kg = 15.2 kg 15.2 kg – 13 kg = **2.2 kg**	9.	(a) 320 + 240 + 180 + 480 = 1220 1220 ÷ 4 = **305** (b) 480 – 300 = 180 $\frac{180}{480}$ (or taking 180 ÷ 480)

Prelim Answer Keys for students

5.	From 0 to 55, look for multiples of 6 that are not multiples of 9. 0, 6, 12, 18, 24, 30, 36, 42, 48, 54 Ans : 6	10	(a) 56 x 12 = 672 672 + 4 = 168 168 + 6 = 28 cm^2 (b) 168 x 5 = 840 12 + 28 = 40 840 + 40 = 21 56 – 21 = 35 cm

11	AP (Original) : AP Discount 100 : 7 Fan (Original) : Fan Discount 10 : 1 70 : 7 100 + 70 = 170 1u = \$510 ÷ 170 = \$3 170u – 7u -7u = 156u 156u = \$3 x 156 = \$468	12	a) ∠GFD = 180 - 48 = 132° b) **True** **False** **Not Possible to tell** (1 mark for each answer)
13	a) Method 1 OB = 8 ÷ 2 = 4 Shaded Part = 4 x 4 x 2 = 32 cm^2 <u>Method 2</u> Shaded Part = $\frac{1}{2}$ x 8 x 8 = 32 cm^2	13	b) <u>Method 1 (Finding shaded directly)</u> $\frac{1}{4} \times \pi \times 16^2$ =200.96 200.96 – $\frac{3}{4} \times \pi \times 8^2$ = 50.24 50.24 + 32 = 82.24 <u>Method 2 (Finding unshaded first)</u> $\frac{1}{4} \times \pi \times 16^2$=200.96 $\frac{1}{4} \times \pi \times 8^2$ – 16 x 2 = 16 200.96 - 16 = 184.96 184.96 ÷ 2 = 92.48

Prelim Answer Keys for students

			$\frac{1}{4} \times \pi \times 8^2 = 16\pi = 50.24$ 18.24 + 50.24 + 50.24 = 118.72 200.96 – 118.72 = **82.24**
14	a) Method 1 $660 + $300 = $960 $960 ÷ 2 = **$480** Method 2 $660 - $300 = $360 $360 ÷ 2 = $180 $180 + $300 = **$480**	14	b) Apples Amt = $480 $\frac{1}{4}$ x Apples Amt = $\frac{1}{4}$ x $480 = $120 $180 - $120 = $60 $60 + $0.30 = 200 (no. of pears) $180 ÷ 200 = $0.90 $0.90 - $0.30 = **$0.60**
15	a) 1 Long + 1Slant = 144 + 4 =36 1 Short + 1 Slant = 54 ÷ 2 =27 Long -Short = 36-27 =9 GH = **9** cm		b) From Figure 1, observe that short length = side length 7u – 4u = 3u = 9 1u = 9 ÷ 3 = 3 QR = 4u = 12cm PU = 7u = 21cm PT = 12 + 21 = 33cm PQ = QR = 12cm Area of PQST = 12 x 33 = **396 cm^2**

END