Anglo-Chinese School
(Primary)
A Methodist Institution
(Founded 1886)

Mathematics
Primary Six

Revision Paper – Set 2A

Name: _____ ( )

Class: Primary 6 _____

Date: _____

Paper 1 Duration: 1 hour
(Calculator not allowed)

Paper 2: Duration: 1 hour 30 minutes
(Calculator is allowed)

AL	Mark Range	Your AL is:
AL1	≥ 90	
AL2	85 – 89	
AL3	80 – 84	
AL4	75 – 79	
AL5	65 – 74	
AL6	45 – 64	
AL7	20 – 44	
AL8	< 20	

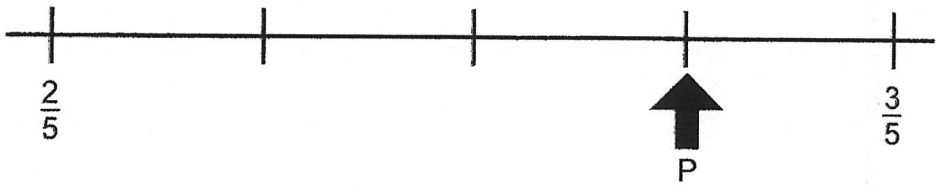
Section	Maximum Marks	Marks Obtained
Paper 1 **Booklet A. Multiple-Choice Questions**	**20**	
Paper 1 **Booklet B. Short Answers: Part 1**	**5**	
Paper 1 **Booklet B. Short Answers: Part 2**	**20**	
Paper 2 **Section B. Short Answers : Part 2**	**10**	
Paper 2 **Section C. Problem Sums**	**45**	
Total Marks	**100**	

Questions **1** to **10** carry 1 mark each. Questions **11** to **15** 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). (20 marks)

1. 9 tens, 6 tenths and 5 thousandths is _____.

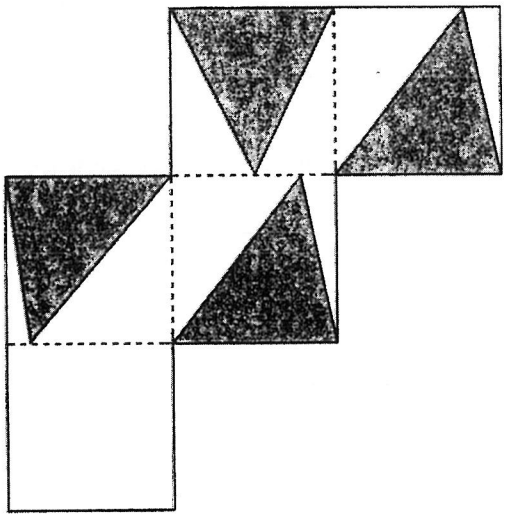
   1) 9.605
   2) 9.65
   3) 90.605
   4) 90.65

2. In the number line below, what fraction is represented by P?



   1) $\frac{3}{20}$
   2) $\frac{9}{20}$
   3) $\frac{1}{2}$
   4) $\frac{11}{20}$

3. The figure is made up of 5 identical squares. What fraction of the figure is shaded?



1) $\frac{1}{5}$

2) $\frac{2}{5}$

3) $\frac{3}{5}$

4) $\frac{4}{5}$

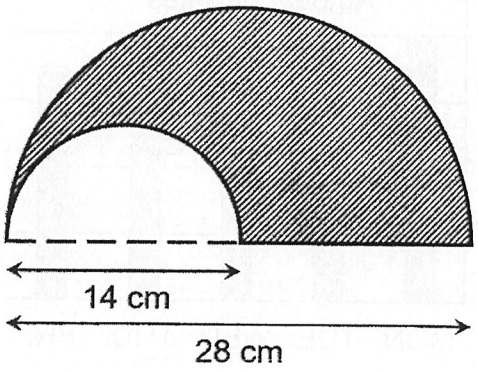
4. Mindy used a packet of flour to bake some cupcakes and cookies. After using $\frac{3}{7}$ of the packet of flour for cupcakes and 250 g of flour for cookies, she had 230 g of flour left. How much more flour did Mindy use for cupcakes than cookies?

1) 110 g
2) 120 g
3) 360 g
4) 610 g

5. Which of the following has the same value as 12 km 34 m?

1) 1234 m
2) 12 034 m
3) 12 340 m
4) 123 400 m

6. Find the perimeter of the shaded part.
Take $\pi = \frac{22}{7}$



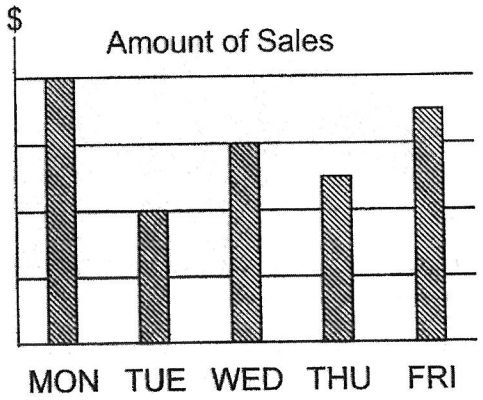
1) 44 cm
2) 66 cm
3) 80 cm
4) 231 cm

7. The table shows the amount of sales of a shop from Monday to Friday.

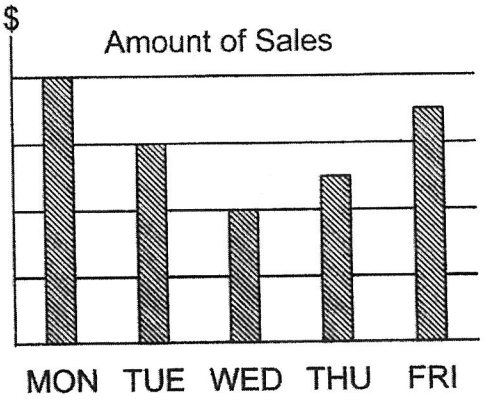
Day	Sales ($)
MON	350
TUE	200
WED	300
THU	250
FRI	400

Which of the following bar graphs represents the information shown in the table above?

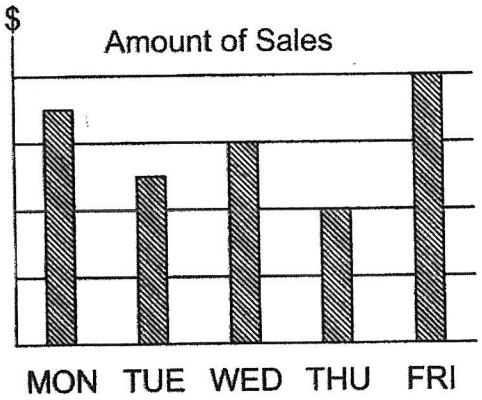
1)



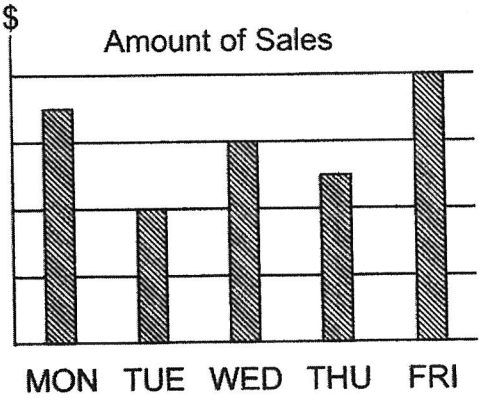
2)



3)



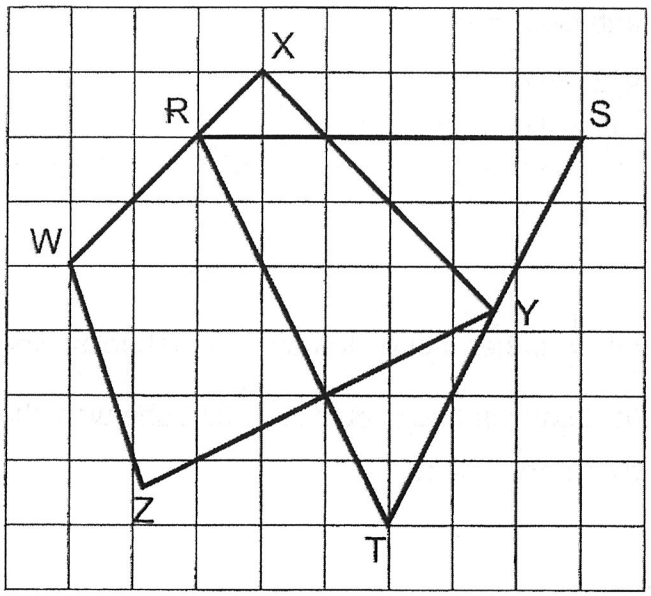
4)



8. Frank had 48 stamps and George had 42 stamps. Helen had 15 stamps more than George. What was the average number of stamps these 3 children had?

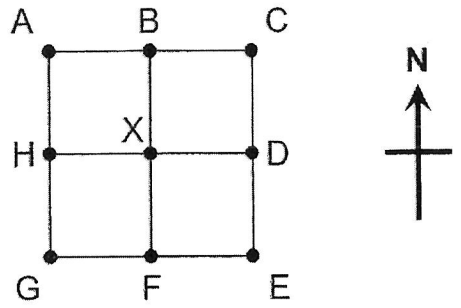
1) 35
2) 49
3) 51
4) 105

9. Which of the 2 lines are perpendicular to each other?



1) RT and WX
2) XY and ST
3) RT and YZ
4) XY and WZ

10. Both Caleb and Richard were standing at point X facing North. Caleb turned clockwise to face point E. What angle should Richard turn to face point E?



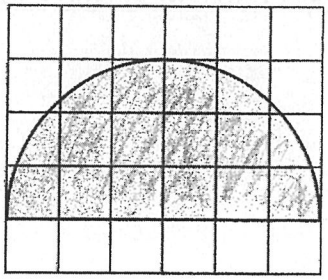
1) 225° anti-clockwise
2) 270° anti-clockwise
3) 225° clockwise
4) 270° clockwise

11. Mrs Tan spent $\frac{4}{5}$ of her money to buy 16 notebooks. She wanted to buy another 16 identical notebooks but found that she was short of $36. What was the price of 1 notebook?

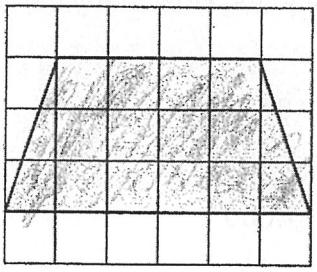
1) $1.80
2) $2.25
3) $3
4) $4

12. Which of the following shaded shapes has the largest area?

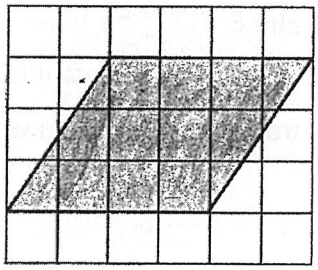
1)



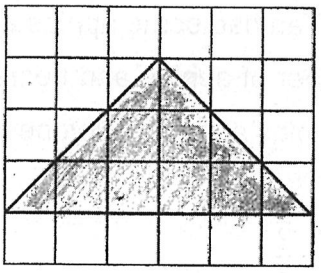
2)



3)

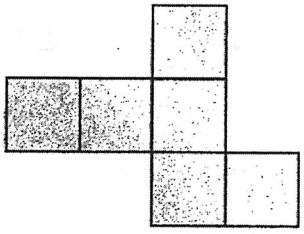


4)

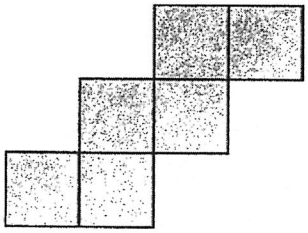


13. Which of the following is NOT a net of a cube?

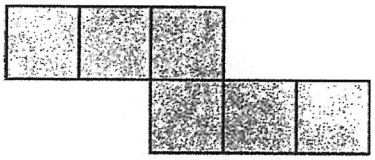
1)



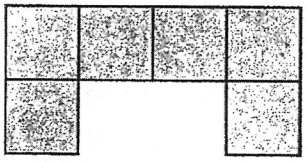
2)



3)



4)



14. A machine started printing cards at 5.30 a.m. at the rate of 250 cards per hour. After every 3.5 hours of printing, the machine was stopped for 30 minutes. How many cards were printed by 11.30 p.m. on the same day?

1) 875
2) 3500
3) 4000
4) 4500

15. Mrs Tan had some apples and pears in the ratio 8 : 17. She used an equal number of apples and pears to make some tarts. The ratio of the number of apples and pears left became 1 : 4. What fraction of the fruits were left?

1) $\frac{2}{3}$
2) $\frac{3}{5}$
3) $\frac{2}{5}$
4) $\frac{1}{5}$

Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(5 marks)

16. Find the value of $45 + 5 - 5 \div 5$.

Answer: _____

17. Tina had $\frac{7}{8}\ell$ of milk. She poured the milk equally into 4 cups. She added $\frac{1}{8}\ell$ of chocolate syrup to one of the cups to make chocolate milk. How much chocolate milk was there in the cup?

Answer: _____ ℓ

18. Kenny started watching a 27 minutes video at 1045. He took an 8 minutes break before starting another movie for 1 hour and 30 minutes. What time did he finish the movie? Express your answer in 24-hour format.

Answer: _____

19. The school is between John's home and the park. If the park is 297 m from the school and the school is 706 m from his home, how far, in km, is his home from the park?

Park

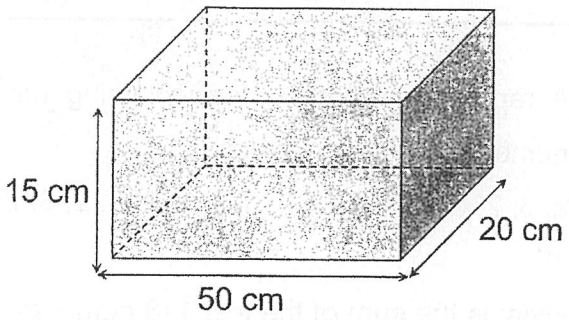
School

John's Home

Answer: _____ km

Sub-Total : [ ]

20. A rectangular container measuring 50 cm by 20 cm by 15 cm was completely filled with water. What was the new height of the water level after 4 ℓ of water were poured out?



Answer: _____ cm

Sub-Total : [ ]

Questions 21 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. (20 marks)

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21. A repeated pattern is formed using the numbers 2 and 3. The first 20 numbers are shown below.

2, 3, 2, 3, 2, 2, 2, 3, 2, 3, 2, 2 2, 3, 2, 3, 2, 2, 2, 3, ...

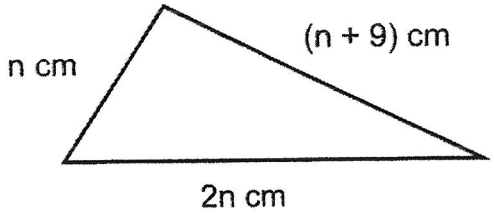
1st 20th

What is the sum of the first 118 numbers?

Answer: _____

22. Peter had a wire which was 57 cm long. He formed a triangle, with sides measuring n cm, 2n cm and (n + 9) cm with all the wire.

Find the value of *n*.

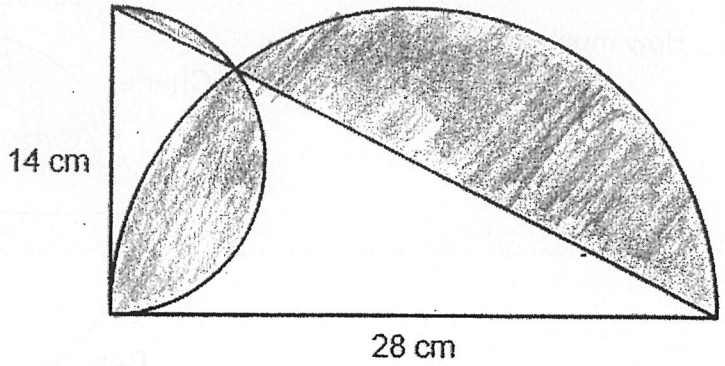


Answer: _____

Sub-Total : ☐

23. The shaded area is made from overlapping 2 semi-circles and a right-angled triangle. The diameters of 2 semi-circles are 14 cm and 28 cm respectively.

Find the area of the shaded parts. Take $\pi = \frac{22}{7}$



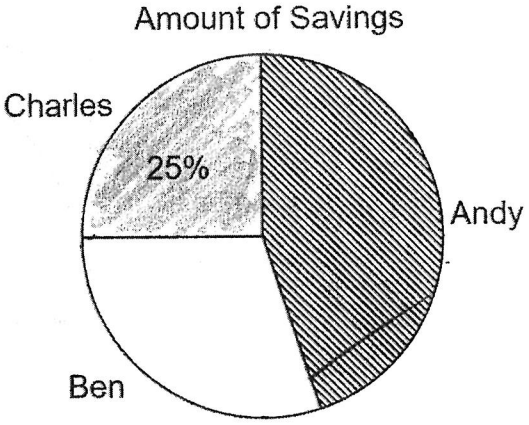
Answer: _____ cm^2

Sub-Total :

Use the information below to answer Question 24 and Question 25

The pie chart represents the amount of savings each of the 3 boys had. Andy saved $243 and Ben saved $162. Charles saved 25% of the total savings.

24. How much did Charles save?



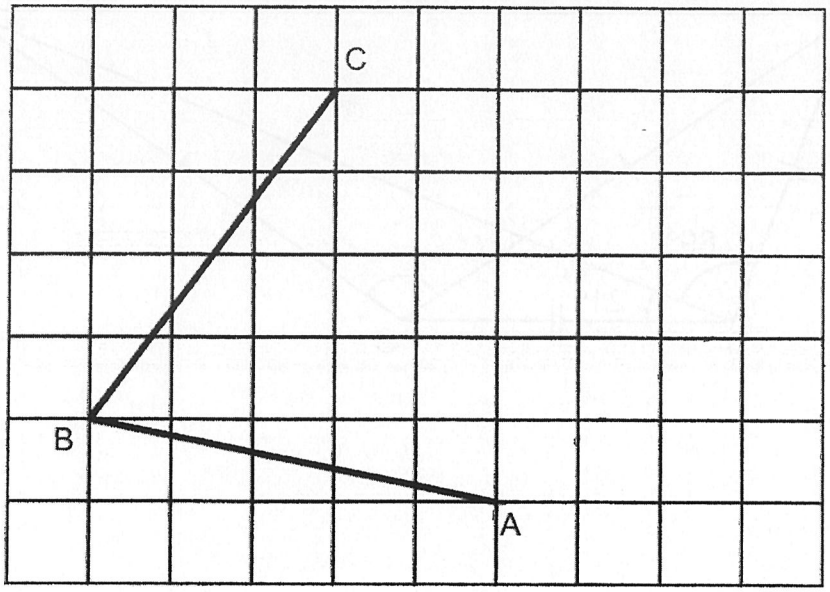
Answer: $_____

25. A fourth boy, David, decided to join the group's savings. After he joined, the average savings increased by $8. How much did David save?

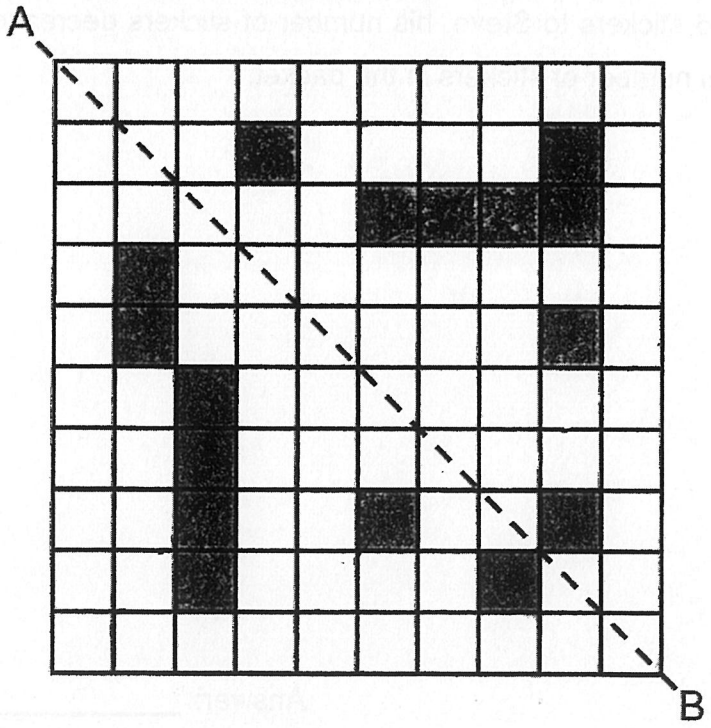
Answer: $_____

Sub-Total : [ ]

26. AB and BC are two sides of a rhombus. Complete the rhombus by drawing the other two sides in the square grid below.

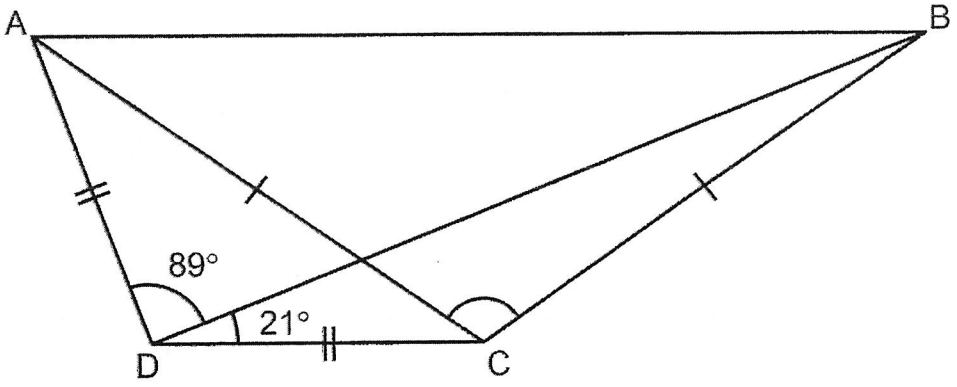


27. In the figure below, shade the minimum number of square(s) to form a symmetric figure with AB as the line of symmetry.



Sub-Total :

28. In the figure below, ABCD is a trapezium. AD = CD and AC = BC.
$\angle ADB = 89^\circ$ and $\angle BDC = 21^\circ$. Find $\angle ACB$.



Answer: _____

29. Steve and Tom shared a packet of stickers. Steve received 65 stickers. After Tom gave 36 stickers to Steve, his number of stickers decreased by 40%. Find the total number of stickers in the packet.

Answer: _____

Sub-Total : ☐

30. Mrs Lee spent $168 on some pencils and pens. The number of pencils bought is 3 times the number of pens bought. The cost of each pencil and pen is $1.50 and $2.50 respectively. How many pencils did she buy?

Answer: _____

End of Paper 1

Sub-Total : [ ]

Name: _____ Class: _____

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

Do not write in this space

1. The sum of three odd 2-digit numbers is 181. One of the odd numbers is 29. What is the greatest difference between the other two odd numbers?

Ans: _____ [2]

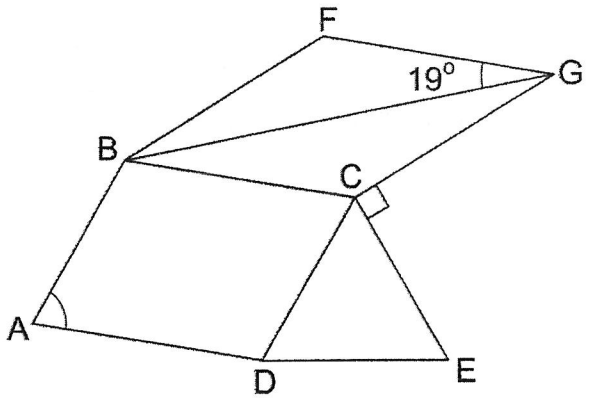
2. Water flowed from a tap to an empty container at a rate of 6.08 ℓ per hour. The tap was turned on at 5.45 p.m. and was turn off at 1 a.m. when the container was full.

What was the volume of the water in the container in ℓ and mℓ?

Ans: _____ ℓ _____ mℓ [2]

Name:_____ Class:_____

3. In the figure below, ABCD is a parallelogram, CED is an equilateral triangle, and BFGC is a rhombus. ∠FGB = 19°. Find ∠ BAD.



Ans: _____° [2]

4. The ratio of the capacity of a jug to the capacity of a pail is 1 : 4. The capacity of the pail is $\frac{5}{6}$ the capacity of a tank. The pail is half-filled with 3 ℓ of water. Find the total capacity of the jug, pail and tank.

Ans: _____ ℓ [2]

5. The table showed the number of mobile devices owned by each family. Part of the table was torn off as shown below. There were 57 families with more than 2 mobile devices owned.

Do not write in this spac

No. of mobile devices	0	1	2	3	4	5
No. of families	3	5	15	25	[redacted]	

Each of the statement 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**	
(a) There are a total of 77 families who owned mobile devices.				[1]
(b) If the average number of mobile devices per family is $3\frac{1}{8}$, then there are 24 families with 4 mobile devices.				[1]

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

(45 marks)

Do not write in this space

6. 4 boys had an average of 90 marbles. During a play session, they lost a total of 15 marbles. 2 more boys joined the group and brought 85 and 62 marbles respectively. What was the new average?

Ans: _____ [3]

7. Alan had some money at first. He spent $\frac{3}{5}$ of his money on a pair of shoes and $\frac{7}{10}$ of the remainder on some books. After his mother gave him $396, he had the same amount of money as he had at first. How much money did he have at first?

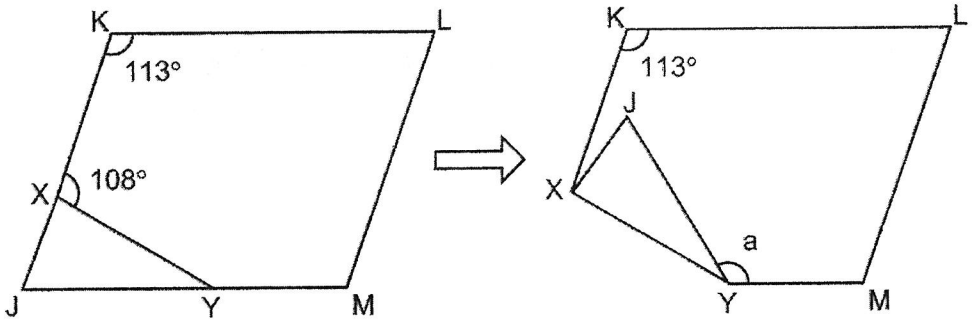
Do not write in this space

Ans: _____ [3]

8. Parallelogram JKLM is folded along line XY to form the shape KLMYX.

∠XKL = 113° and ∠KXY = 108°. Find ∠a.

Do not write in this space



Ans: _____ [3]

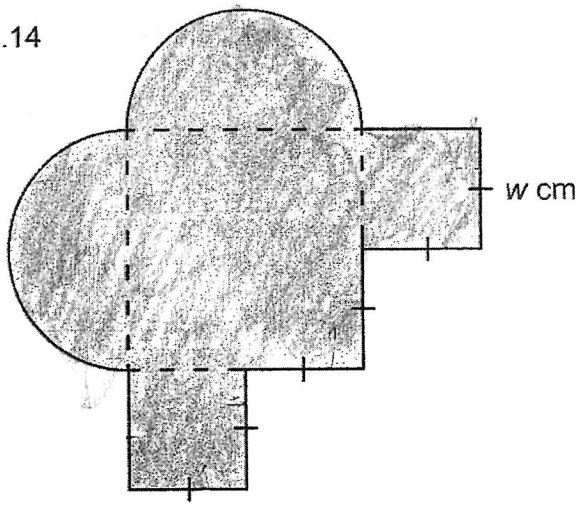
9. Jeremy and Daniel took part in a marathon. When Jeremy completed the marathon in 4 hours, Daniel had only run $\frac{5}{8}$ of the distance. Jeremy's speed was 3 km/h faster than Daniel. Find Daniel's average speed for the marathon.

Do not write in this space

Ans: _____ [3]

10. The shaded figure is made of squares and semi-circles. The length of the smaller square is w cm. The perimeter of the figure is 357 cm.

Find the value of w. Take $\pi = 3.14$



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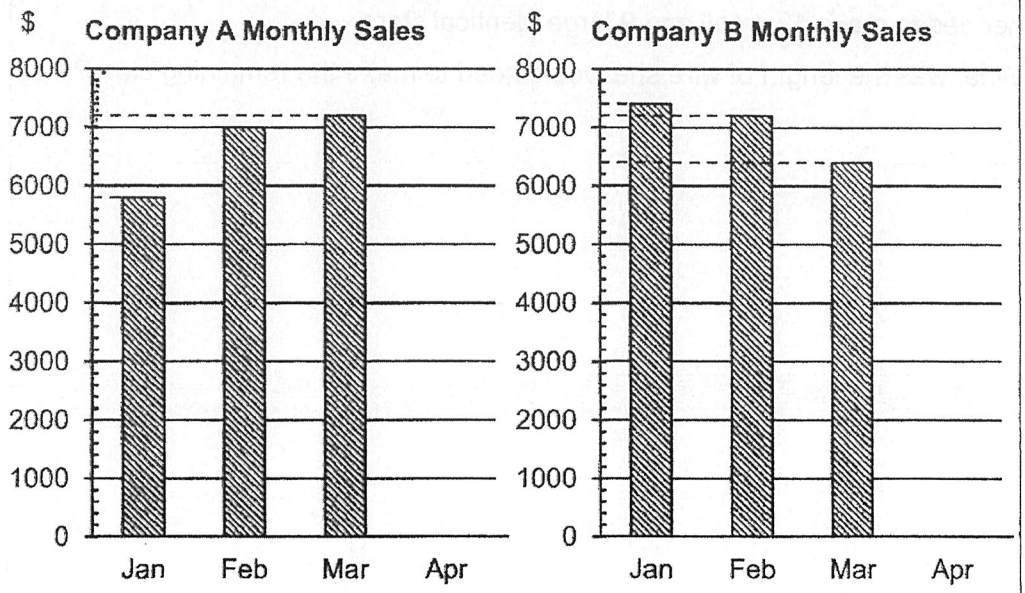
Ans: _____ [3]

11. The bar graphs below show the sales of 2 companies, A and B, from January to March.

Do not write in this space



(a) In Company A, 80% of the 4 months' sales were from January to March. What was the sales of Company A in April?

(b) In April, sales of Company B was $\frac{1}{4}$ of its total sales from January to April. Express the total sales of Company B as a percentage of the total sales of Company A.

Ans: (a) _____ [2]

(b) _____ [2]

12. Maria made 8 small stars and 5 large stars using 9.68 m of wire. The length of the wire she used for 3 large stars was the same as that for 4 small stars. She needed to make 12 small and 9 large identical stars.
What was the length of wire she would need to make the remaining stars?

Do not write in this space

Ans: _____ [4]

13. Tank X and Tank Y were transparent rectangular tanks. Tank X measured 40 cm by 30 cm by 100 cm. It was half-filled with water. Tank Y was an empty tank, measuring 80 cm by 30 cm by 60 cm. Some water was transferred from Tank X to Tank Y. The height of the water in Tank Y was $\frac{1}{3}$ of the water level in Tank X. How much water was transferred to Tank Y?

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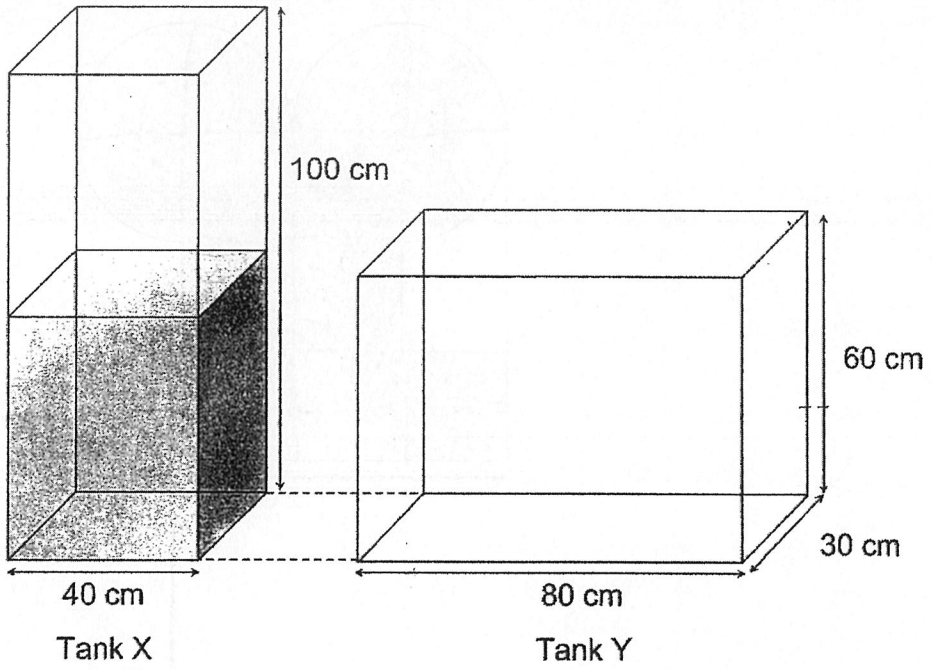


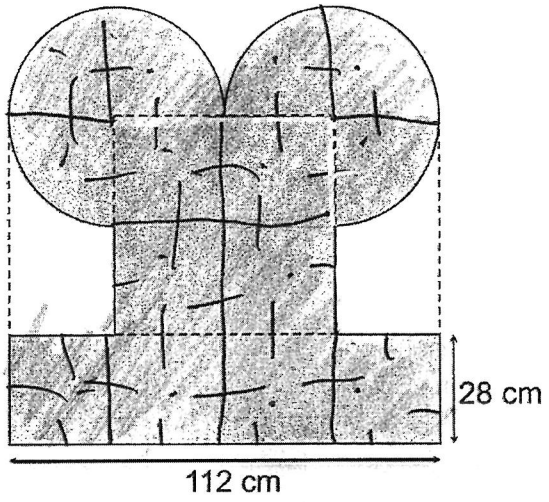
Ans: _____ [4]

14. The shaded figure below is formed by two identical three-quarter circles, a square and a rectangle.

(a) Find the perimeter of the shaded figure.

(b) Find the area of the shaded figure.

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

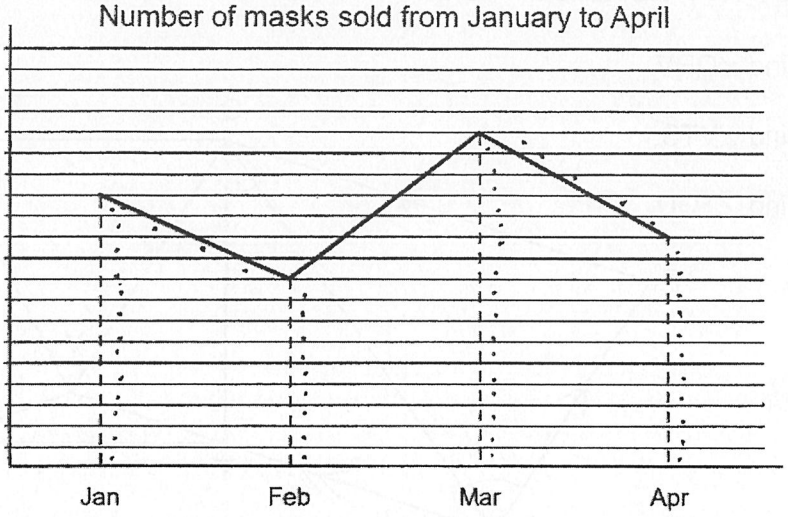


Ans: (a) _____ [3]

(b) _____ [2]

15. The line graph shows the number of masks sold in a shop from January to April.

Do not write in this space



(a) What is the ratio of the least number of masks sold to the highest number of masks sold during this 4-month period?

Ans: _____ [1]

(b) During which 1-month interval was there the most decreased number of masks sold?

Ans: _____ to _____ [1]

(c) The shop sold a total of 98 masks in the 4 months. How many masks were sold in January?

Ans: _____ [2]

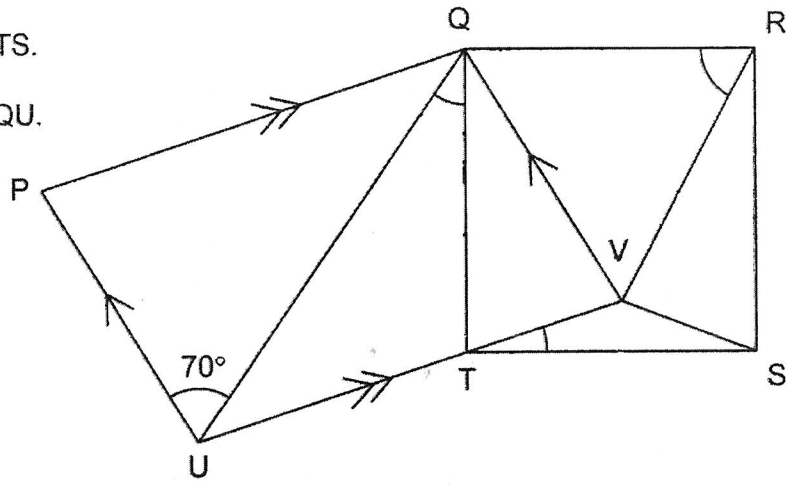
16. In the figure below, PQVU is a parallelogram and QRST is a square.

QT = QV = RV = RS. ∠PUQ = 70°.

(a) Find ∠QRV.

(b) Find ∠VTS.

(c) Find ∠TQU.



Ans: (a) _____ [1]

(b) _____ [2]

(c) _____ [2]

Do not write in this space

17. Alice had some coloured beads. She used $\frac{1}{7}$ of them to make a bracelet and gave 48 of the beads to her sister. She was left with $\frac{2}{3}$ of the beads. She made 15 rings with the remaining beads. Some rings were made with 19 beads while the rest were made with 6 beads.

(a) How many coloured beads were used to make 15 rings?

(b) How many rings were made with 6 beads?

Ans: (a) _____ [2]

(b) _____ [2]

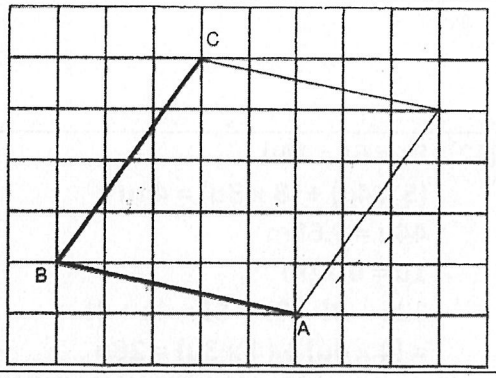
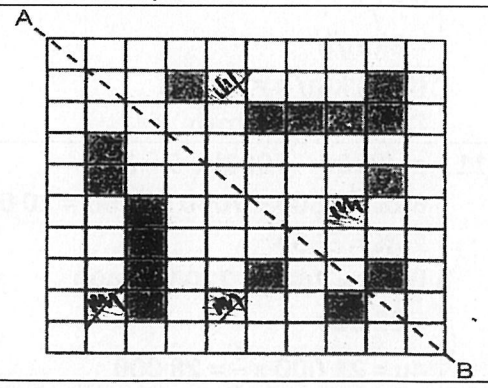
END OF PAPER 2

YEAR : 2023
LEVEL : PRIMARY 6
SCHOOL : ANGLO-CHINESE SCHOOL (PRIMARY)
SUBJECT : MATHEMATICS
TERM. : REVISION PAPER – SET 2 A

(BOOKLET A)

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

(BOOKLET B)

Q16	45 + 5 – 1 = 49	Q17	$\frac{1}{8} = \frac{4}{32}$ $\frac{7}{8} \div \frac{4}{1} = \frac{7}{32}$ $\frac{7}{32} + \frac{4}{32} = \frac{11}{32}$L
Q18	1250	Q19	706 + 297 = 1003m = 1.003km
Q20	$\frac{4000ml}{50 \times 20} = 4$ 4 x 50 x 20 = 4000 15 – 4 = 11cm	Q21	1 set = 2 + 3 + 2 + 2 = 14 No. of sets = $\frac{118}{6}$ = 19R4 Sum = (19 x 14) + 10 = 276
Q22	57 = 4n + 9 48 = 4n 1n = 12	Q23	$(\frac{1}{2} \times \frac{22}{7} \times 7^2) + (\frac{1}{2} \times \frac{22}{7} \times 14^2) - (\frac{1}{2} \times 14 \times 28)$ = 189 cm^2
Q24	25% = $\frac{243+162}{3}$ = \$135	Q25	100% = 135 x 4 = 540 $\frac{540}{3}$ = 180 8 x 4 = 32 32 + 180 = \$212
Q26		Q27	
Q28	(180 – 89 – 21) ÷ 2 = 35 180 – 89 – 21 = 70 78 – 35 = 35 180 – 35 – 35 = 110°	Q29	36 = 4% 100% = 36 x $\frac{100}{40}$ = 90 65 + 90 = 155

Q30	3 x 1.5 = 4.5 4.5 + 2.5 = 7 $\frac{168}{7}$ = 24 24 x 3 = 72

PAPER 2

Q1	181 – 29 = 152 152 – 99 = 53 99 – 53 = 46	Q2	5.45p.m. – 12.45 = 6.08 x 7 = 42.56 6.08 x $\frac{15}{60}$ = 1.52 42.56 + 1.52 = 44.08 44l 80ml
Q3	180 – 19 – 19 = 142 360 – 90 – 60 – 142 = 68°	Q4	5u + 20u + 24u = 49u 10u = 3l 49u = 3 x $\frac{49}{10}$ = 14.7l
Q5	(a) True (b) False	Q6	90 x 4 = 360 360 – 15 = 345 345 + 85 + 62 = 492 $\frac{492}{4+2}$ = 82
Q7	15u + 7u = 22u 22u = 396 1u = 18 25u = $450	Q8	180 – 113 = 67 180 – 108 = 72 180 – 72 – 67 = 41 180 – 41 – 41 = 98°
Q9	J = (D+3)km/h K = (D)km/h D = S x T = D km/h x 4h = (4D)km D = S x T = (D + 3) km/h x 4h = (4D + 12)km $\frac{3}{8}$ M = (4D + 12) km – (4D) km = 12km $\frac{8}{8}$ = 12 x $\frac{8}{3}$ = 32 S = $\frac{D}{T}$ = 8km/h (D+3) km/h = 8km/h D = 8 – 3 = 5 km/h	Q10	8W + (Circle) = 357 Circle = 2W x 3.14 = 6.28 6.28W + 8W = 357cm = 14.28W W = $\frac{357}{14.28}$ = 25cm
Q11	a) (8000 – 7000) ÷ 5 = 200 80% = 5800 + 7000 + 7200 = 20 000 20% = 5000 b) 3u = 7400 + 7200 + 6400 = 21 000 4u = 21 000 x $\frac{4}{3}$ = 28 000 100 x $\frac{28\,000}{25\,000}$ = 112%	Q12	8s = 6l = 24u (5 x 4u) + (8 x 3u) = 44u 44u = 9.68m 1u = 0.22m 125 + 9l – 8s + 5l = 4s + 4l = (4 x 4u) + (4 x 3u) = 28u 28u = 6.16m

Q13	40 x 30 x 50 = 60l = 80 x 30 = 2400cm 40 x 30 = 1200 $\frac{2400}{1200}$ = 2 X = 3u Y = 2u 3 + 2 = 5 $\frac{2}{5}$ x 60 = 24l	Q14	a) $\frac{114}{4}$ = 28 28 x 2 = 56 $\frac{6}{4}$ x $\frac{22}{7}$ x 56 = 264cm 264cm + 280cm = 544cm b) $\frac{6}{4}$ x 28 x 28 x $\frac{22}{7}$ = 3696 8 x 28^2 = 6272 6272 + 3696 = 9968cm^2
Q15	(a) 9:16 (b) March to April (c) 26	Q16	a) QU = RV = QR → equilateral = 60° b) CTQU = 90 – 60 = 30° CQTV = $\frac{180-30}{2}$ = 75 CVTS = 90 – 75 = 15° c) CTQU = 70 – 30 = 40°
Q17	(a) 7u – 3u = 4u = 48 1u = 12 14u = 168 b) 168 – 114 = 54 $\frac{114}{19}$ = 6 $\frac{54}{6}$ = 9		