603 / SA2 / 24

Anglo-Chinese School (Junior)/
Anglo-Chinese School (Primary)

COMBINED PRELIMINARY EXAMINATION (2019)
PRIMARY 6

MATHEMATICS

PAPER 1
Booklet A

Friday **23 August 2019** **1 h**

INSTRUCTIONS TO PUPILS
1. Do not turn over this page 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. The use of calculators is **NOT** allowed.

Name : _____ **( )**

Class : 6 ( )

This question paper consists of 10 printed pages. (Inclusive of cover page)

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)

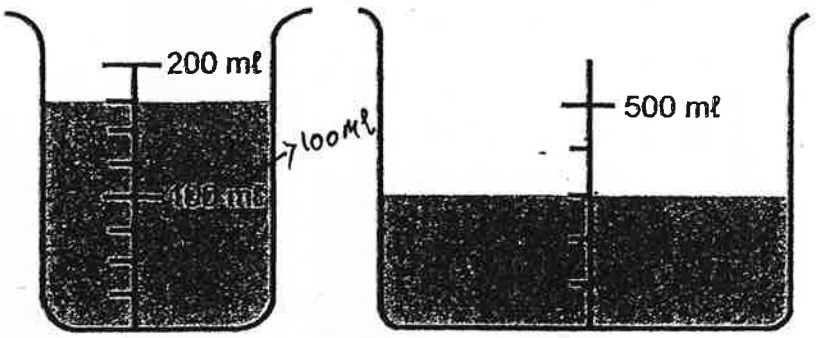
1. Express 3080 cm in m.

   1) 3.08 m
   2) 3.80 m
   3) 30.08 m
   4) 30.80 m

2. Round 123.456 to the nearest hundredth.

   1) 120.00
   2) 123.50
   3) 123.45
   4) 123.46

3. Two containers with some water are shown below.
How much more water is there in Container B than in Container A?



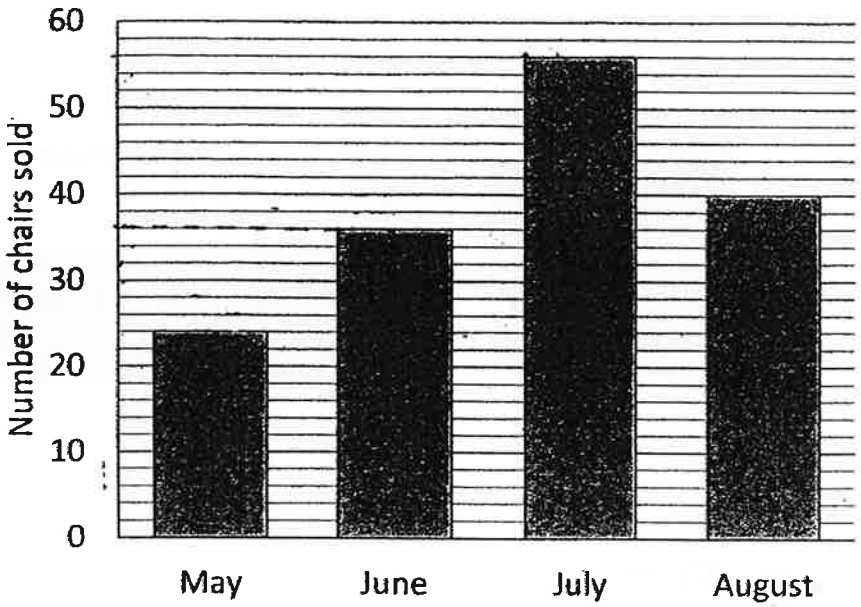
Container A Container B

1) 125 mℓ
2) 175 mℓ
3) 300 mℓ
4) 475 mℓ

4. Which of the following is the same as 7040 cm^3 ?

1) 7ℓ 4 mℓ
2) 7ℓ 40 mℓ
3) 70ℓ 4 mℓ
4) 70ℓ 40 mℓ

5. The graph shows the number of chairs sold by a shop from May to August. In which two months were a total of 76 chairs sold?



1) May and June
2) May and July
3) June and August
4) July and August

6. Which of the following fractions is closest to 4?

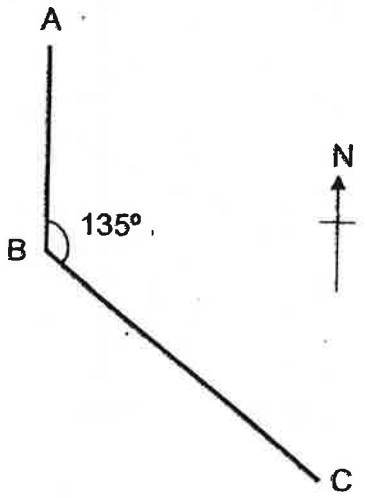
1) $3\frac{1}{2}$
2) $3\frac{1}{6}$
3) $4\frac{1}{4}$
4) $4\frac{1}{5}$

7. How many whole numbers from 29 to 62 are divisible by 5?

1) 6
2) 7
3) 12
4) 18

8. In the diagram, A, B, and C are three points on the ground.
Point A is north of Point B and ∠ABC is 135°.
In what direction is Point C from Point B?

1) North-East
2) North-West
3) South-East
4) South-West

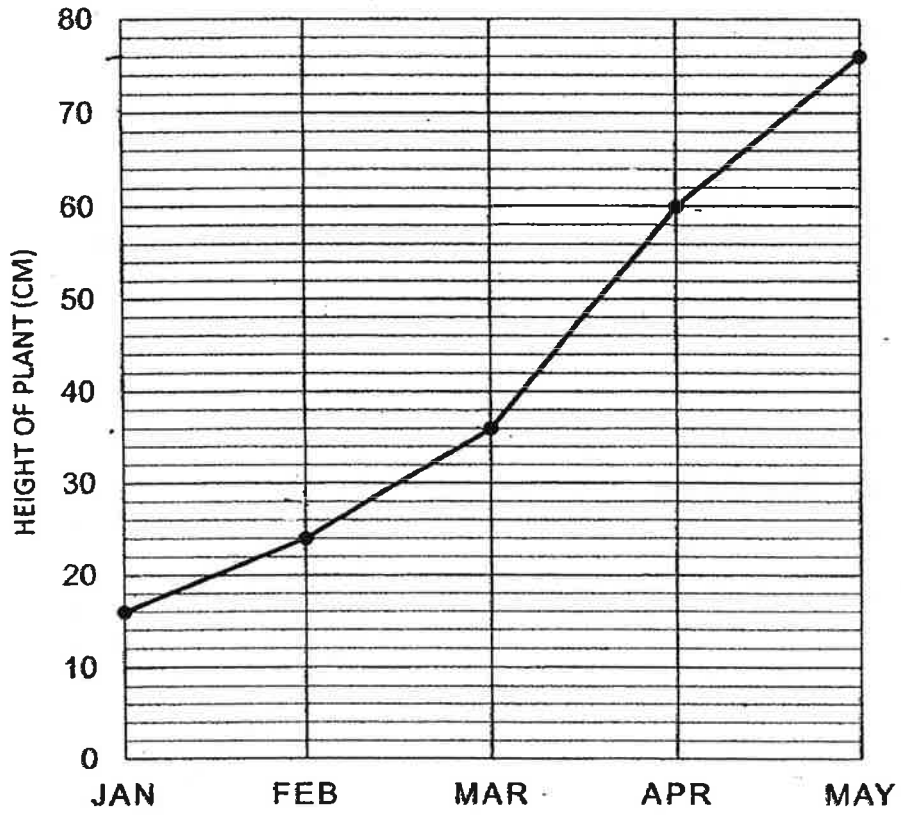


9. Which of the letters below has parallel lines and no perpendicular lines?

W H A T

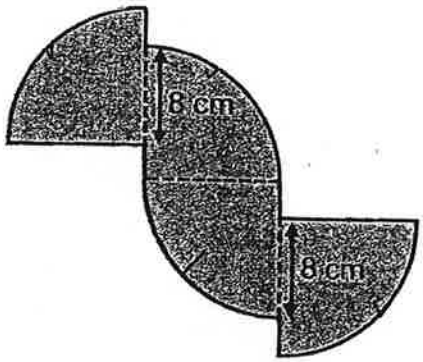
(1) (2) (3) (4)

10. The graph shows the height of a plant from Jan to May.
In which of the following periods did the plant grow by 24 cm?



1) Jan to Feb
2) Feb to Mar
3) Mar to Apr
4) Apr to May

11. The figure is made up of four quarter circles of radius 10 cm. Find the perimeter of the figure. (Take $\pi = 3.14$)



1) 90.8 cm
2) 82.8 cm
3) 71.4 cm
4) 59.4 cm

12. Ben, Charlotte and Danny have some marbles. The ratio of the number of marbles Ben has to the number of marbles Charlotte has is 2 : 7. The total number of marbles Ben and Charlotte have is three times as many as the number of marbles Danny has. Ben and Danny have 300 marbles. How many marbles does Charlotte have?

1) 120
2) 180
3) 420
4) 720

13. Mrs Tan had 9 kg of flour. She used $\frac{1}{3}$ of it to bake a cake. After that, she used $\frac{1}{2}$ kg of the flour to bake some cookies. How much flour had she left?

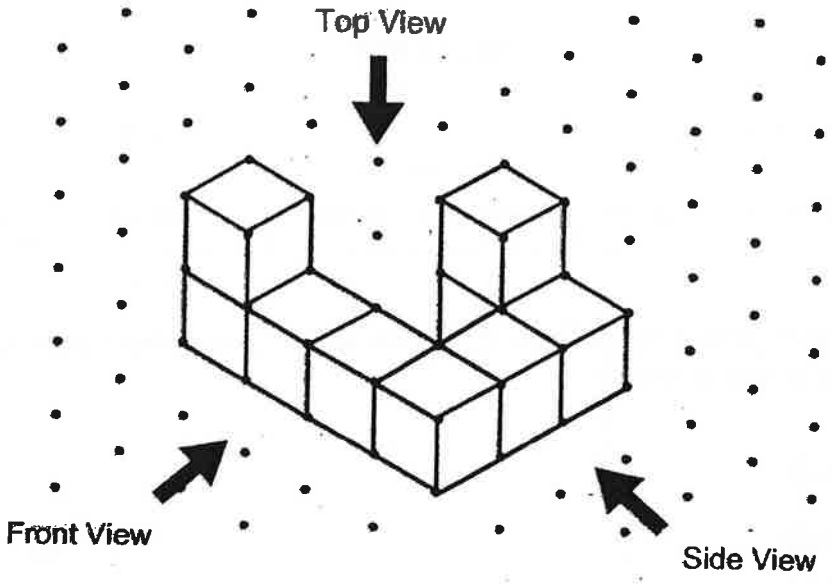
1) $1\frac{1}{2}$ kg

2) $4\frac{1}{6}$ kg

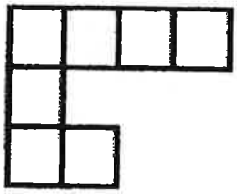
3) $5\frac{1}{2}$ kg

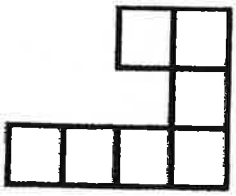
4) $8\frac{1}{6}$ kg

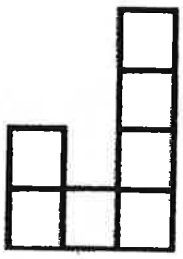
14. 9 cubes are stacked to form the solid below.

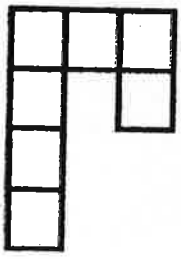


Which of the following is the top view of the solid?

1) 

2) 

3) 

4) 

15.

PARKING FEES	
For first hour	**$2.20**
Every subsequent $\frac{1}{2}$ hour or part thereof	**$0.80**

Miss Ranjit parked her car from 9.00 a.m. to 2.15 p.m. How much did she pay for her parking?

1) $6.20

2) $6.40

3) $8.80

4) $9.40

Anglo-Chinese School (Junior)/
Anglo-Chinese School (Primary)

COMBINED PRELIMINARY EXAMINATION (2019)
PRIMARY 6

MATHEMATICS

PAPER 1
Booklet B

Friday **23 August 2019** **1h**

INSTRUCTIONS TO PUPILS

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Write your answers in this booklet.
5. The use of calculators is **NOT** allowed.

Name : _____ **(** **)**

Class : 6.(**)**

This question paper consists of 10 printed pages. (Inclusive of cover page)

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. Ashley watched a movie that lasted for 149 minutes. The movie started at 11.05 a.m. At what time did the movie end?

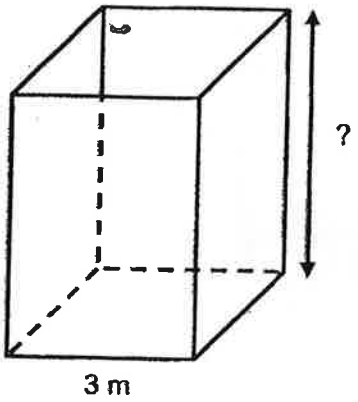
Answer: _____ p.m.

17. Express $\frac{3}{11}$ as a decimal. Give your answer correct to 2 decimal places.

Answer: _____

Sub-Total : [ ]

18. The figure shows a cuboid with a square base of side 3 m.
The volume of the cuboid is 54 m^3. Find the height of the cuboid.



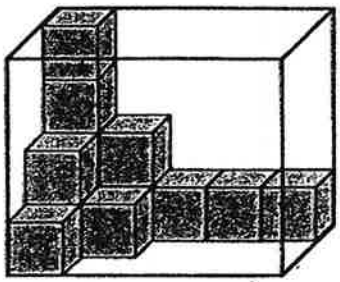
Answer: _____ m

19. Find the value of $2 - 0.008$.

Answer: _____

Sub-Total : [ ]

20. The figure shows a rectangular glass box filled with some unit cubes. How many more cubes are needed to fill the box completely?



Answer: _____

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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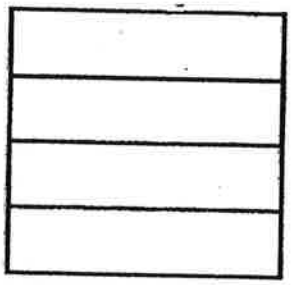
21. The square below is made up of 4 identical rectangles. The perimeter of each rectangle is 40 cm. What is the area of the square?



Answer: _____ cm^2

22. Laura has m pencils. Tom has twice as many pencils as Laura. They each bought another 7 pencils. How many pencils do they now have altogether in terms of m?

Answer: _____

Sub-Total : ☐

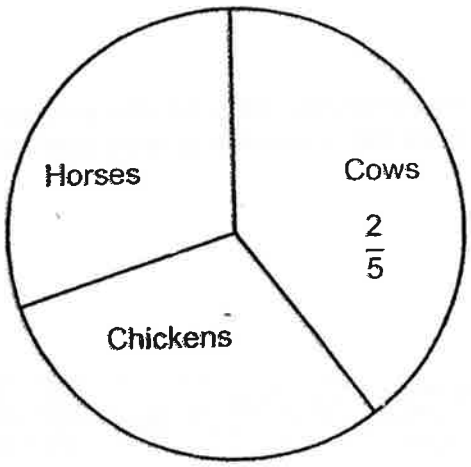
23. The average of a 1-digt number, a 2-digit number and a 3-digit number is 368. What is the smallest possible 1-digit number?

Answer: _____

24. The pie chart represents the number of each type of animals in a farm. There is an equal number of horses and chickens.

There are 15 horses and $\frac{2}{5}$ of the animals are cows.

How many cows are there?



Answer: _____

 Sub-Total :

25. Peter had 80 stickers. He used $\frac{1}{4}$ of his stickers and gave 30% of the remaining stickers to Elijah. How many stickers had Peter left?

Answer: _____

26. Daniel paid $4800 for a laptop and 5 cameras. A laptop cost 3 times as much as a camera. How much did the laptop cost?

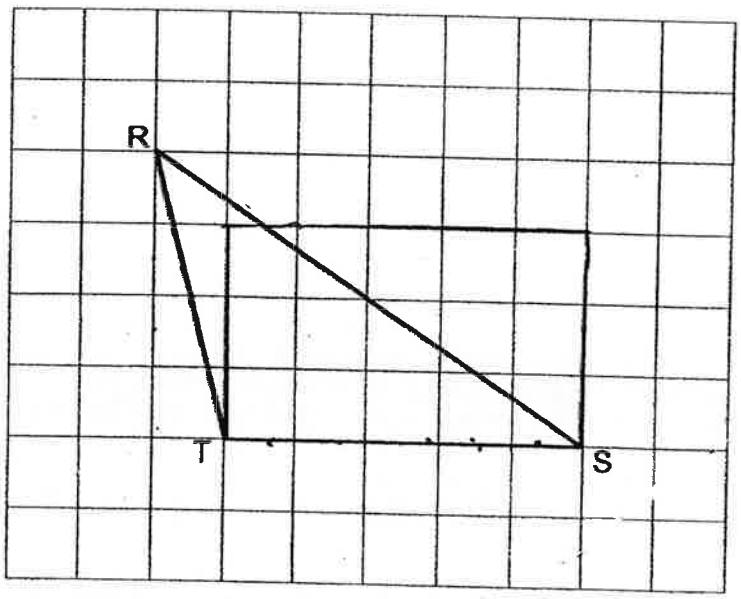
Answer: $ _____

Sub-Total : [ ]

27. Susan has $\frac{7}{11}$ as many candies as Mary. After Mary gave 52 candies to Susan, both of them had the same number of candies. How many candies did Susan have at first?

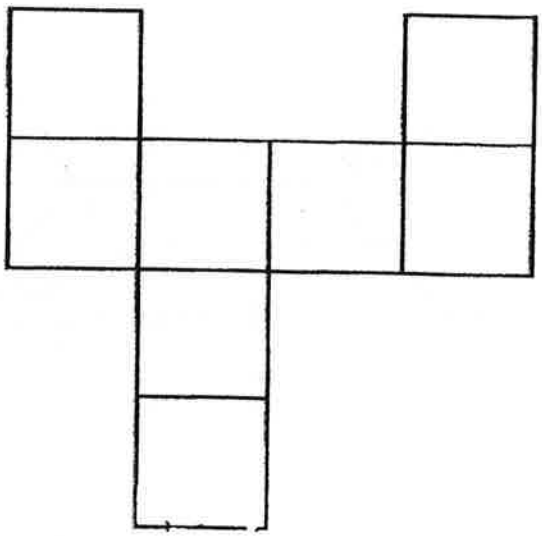
Answer: _____

28. A triangle RST is drawn on the square grid below.
Draw and label a rectangle STUV on the square grid such that the area of triangle RST is $\frac{2}{3}$ the area of rectangle STUV.



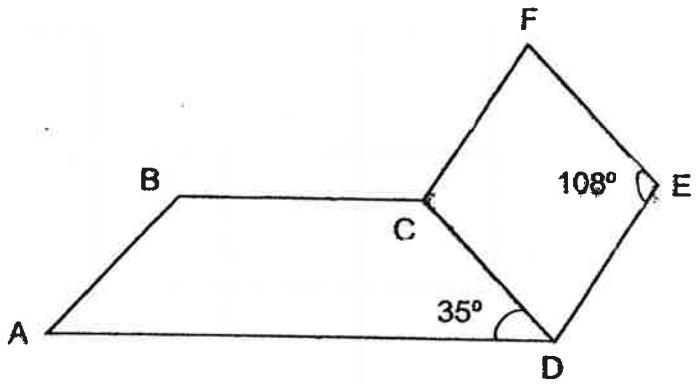
Sub-Total :

29. The figure below is an incorrect net of a cube. Put two crosses (X) on the two square faces which are incorrect.



Sub-Total :

30. In the figure below, CDEF is a rhombus with $\angle DEF = 108°$. ABCD is a trapezium with CD parallel to EF and $\angle ADC = 35°$. Find $\angle BCF$.



Answer: _____ °

End of Paper 1

Sub-Total : [ ]

Anglo-Chinese School (Junior)/
Anglo-Chinese School (Primary)

COMBINED PRELIMINARY EXAMINATION (2019)
PRIMARY 6

MATHEMATICS

PAPER 2

Friday **23 August 2019** **1 h 30 min**

INSTRUCTIONS TO PUPILS

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Show all your workings as marks are awarded for correct working.
5. Write your answers in this booklet.
6. The use of an approved calculator is expected, where appropriate.

Name : _____ **(** **)**

Class : 6.(**)**

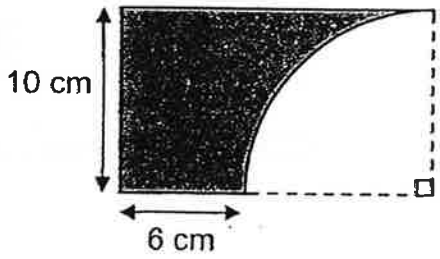
Parent's Signature:_____

Booklet / Paper	Possible Marks	Marks Obtained
Booklet A	20	
Booklet B	25	
Paper 2	55	
Total	100	

This question paper consists of 15 printed pages. (Inclusive of cover page)

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 to the units stated. (10 marks)

1. John cut out a quarter circle with a radius of 10 cm from a piece of rectangular paper as shown below. What is the perimeter of the shaded part? (Take $\pi = 3.14$)



Answer: _____ cm

2. The table shows the number of pupils with the following scores.

Score	11	12	13	14	15
Number of pupils	3	1	0	2	4

What was the average score of all the pupils?

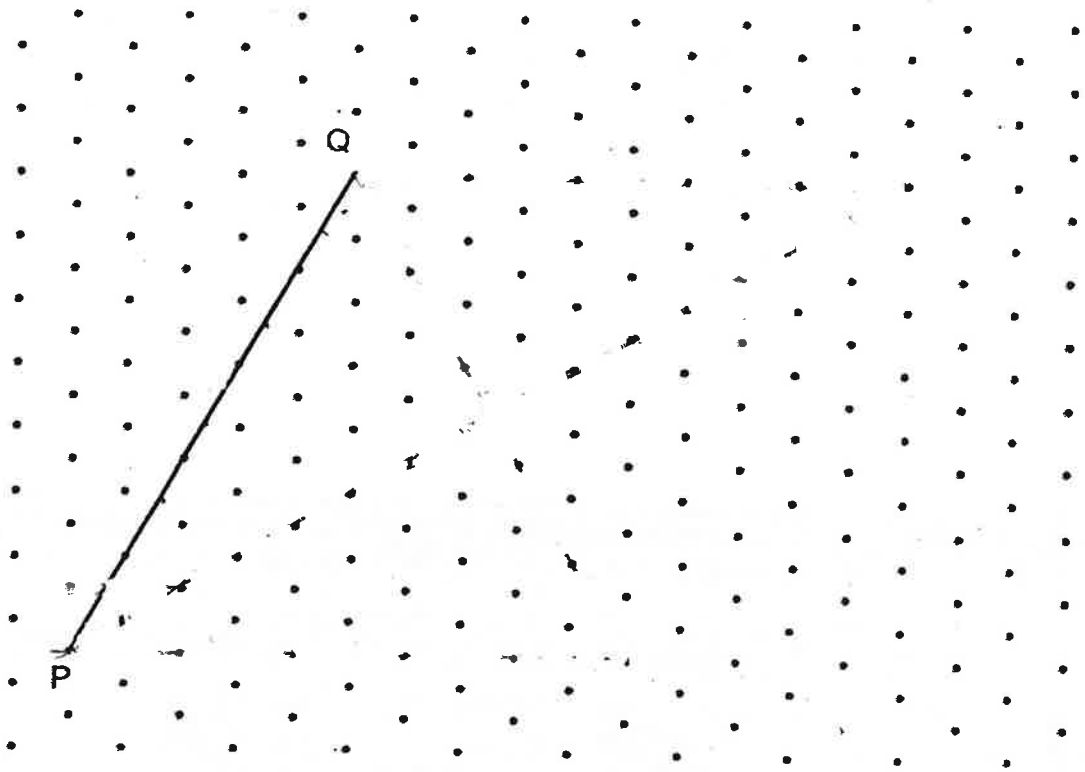
Answer: _____

Sub-Total : ☐

3. Mrs Lim bought some beads for Jessica and Karen. For every 8 beads Jessica took, Karen took 5. In the end, Jessica had 216 more beads than Karen. How many beads did Mrs Lim buy?

Answer: _____

4. In the grid below, draw and label an isosceles triangle PQR in which PQ = QR and ∠PQR is 120°. The line PQ is drawn for you.



Sub-Total : ☐

5. At a carnival, 80% of the muffins were sold at full price and the remaining 60 muffins were sold at half price. The total amount of money collected from the sale of muffins was $864. What was the full price of a muffin?

Answer: $ _____

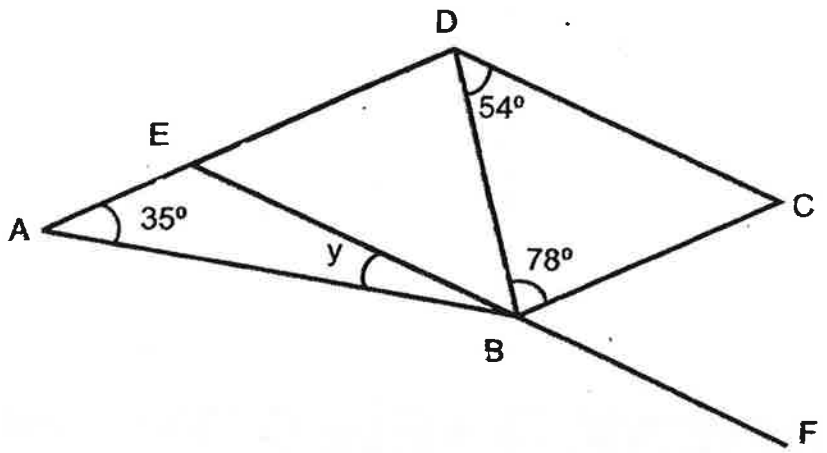
For questions **6** to **17**, show your working clearly and write your answers in the in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (45 marks)

---

6. Amy had $24.80 more than Beatty at first. After Beatty gave $14.20 to Amy, Amy had 3 times as much money as Beatty in the end. How much did Beatty have at first?

Answer: _____ [3]

7. In the figure, AED and EBF are straight lines and BCDE is a parallelogram. Find ∠y.



Answer: _____ [3]

Sub-Total : ☐

8. A shirt cost \$8n. A tie cost half as much as the shirt.

a) Mr Tan bought 6 identical ties and 1 shirt. How much money did he spend in terms of n?

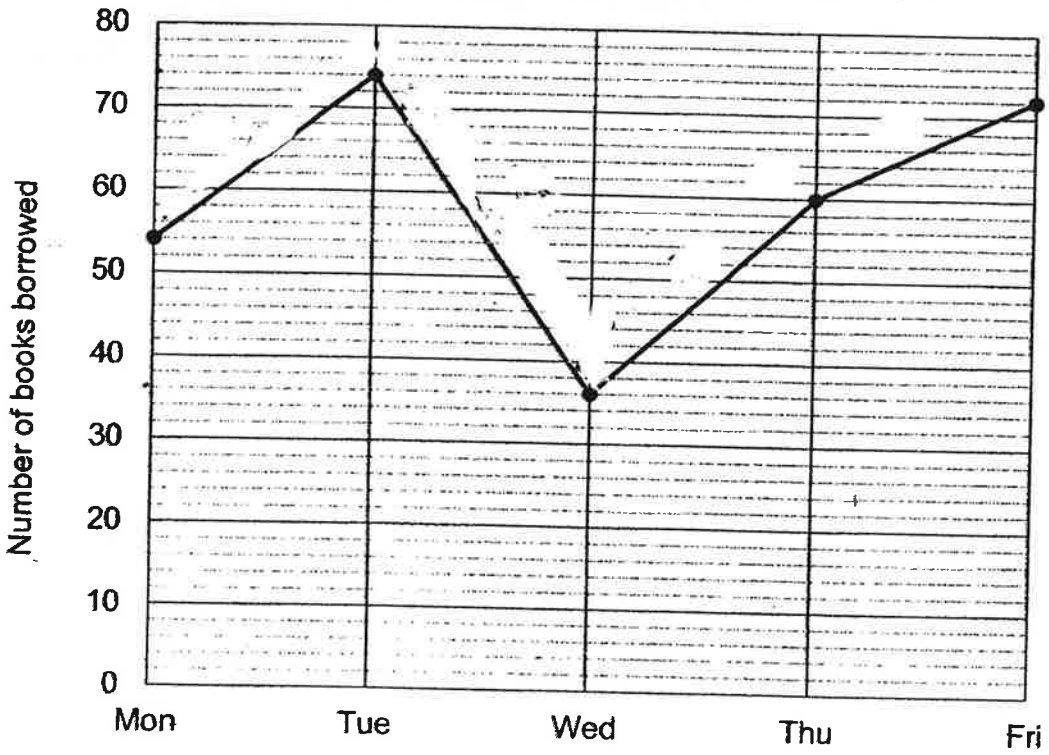
b) Mr Tan spent \$256 on 6 identical ties and 1 shirt. Find the value of n.

Answer: (a) _____ [2]

(b) _____ [1]

Sub-Total : [ ]

9. The line graph shows the number of books borrowed from a library from Monday to Friday.



(a) In which 1-day period was there the biggest change in the number of books borrowed?

(b) Which were the two days when the ratio of the number of books borrowed were 3 : 4?

Answer : (a) _____ to _____ [1]

(b) _____ and _____ [2]

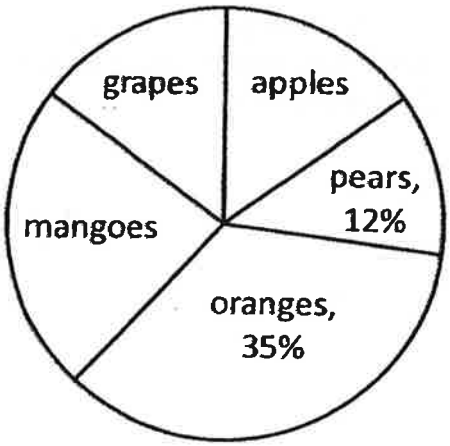
Sub-Total : ☐

10. Eddie and his sister walked from home to school. His sister started walking at 8.00 am at an average speed of 50 m/min. Eddie started walking at 8.05 am at a speed of 60 m/min. Eddie caught up with his sister at mid-point between the school and his home. Find the distance between Eddie's home and the school.

Answer: _____ [3]

Sub-Total :

11. The pie chart shows the different types of fruits in a shop.
There was an equal number of grapes and apples.
There were 16 more mangoes than grapes.
There were 200 fruits altogether.



(a) What was the total number of mangoes, grapes and apples?

(b) How many apples were there?

Answer: (a) _____ [2]

(b) _____ [2]

Sub-Total : ☐

12. The ratio of the number of boys to the number of girls in Group A was 4 : 1. The ratio of the number of boys to the number of girls in Group B was 2 : 3. There were twice as many children in Group A as in Group B.

(a) What was the ratio of the number of boys in Group A to the number of boys in Group B?

(b) 10 boys and 10 girls left in Group B. The ratio of the number of boys in Group B to the number of girls in Group B became 1 : 2. How many children were there in Group A?

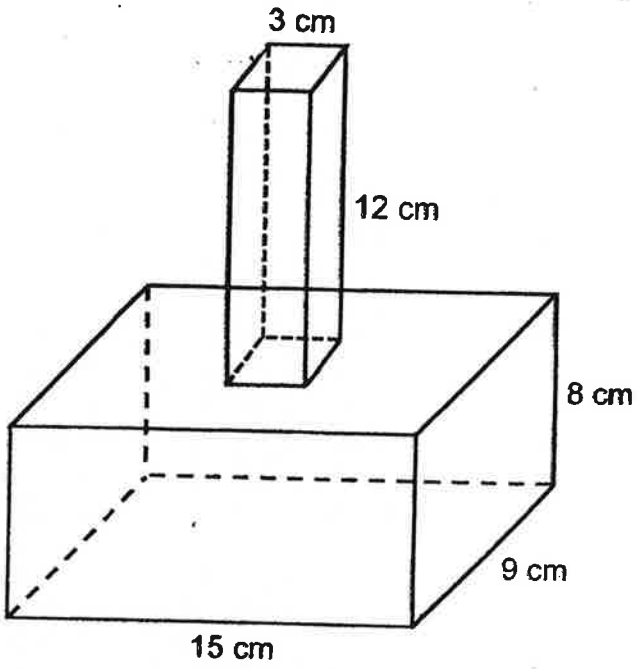
Answer: (a) _____ [2]

(b) _____ [2]

13. The figure shows an empty flower vase of height 20 cm. It is made from two containers. The top container is in the form of a cuboid which has a square base of 3 cm and a height 12 cm. The bottom container is in the form of a cuboid, measuring 15 cm by 9 cm by 8 cm.

$1\frac{1}{8}\ \ell$ of water is poured into the empty vase.

Find the height of the water level from the base of the vase.



Answer: _____ [4]

Sub-Total :

14. Joyce had some money. She bought a dress, a shirt and a watch. She spent $\frac{1}{5}$ of her money on the shirt. The shirt cost \$24 less than the dress. The watch cost \$102. She was left with $\frac{1}{4}$ of the amount of money she had at first. How much money did Joyce have at first?

Answer: _____ [4]

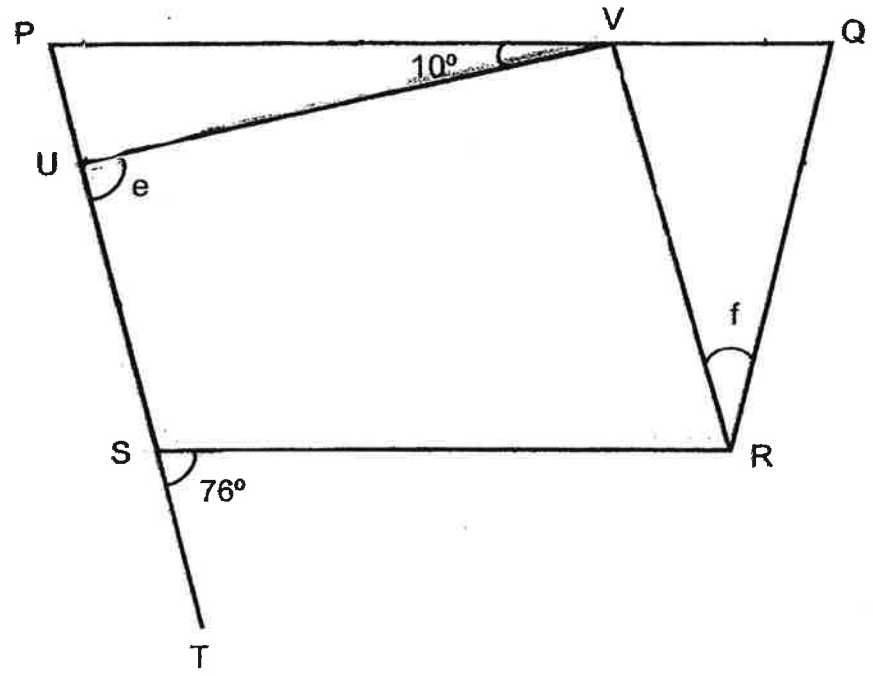
15. Box A contained only 50-cent coins while Box B contained only 20-cents coins. Box B has 60 more coins than Box A but the value of all the coins in Box A is $4.50 more than the value of all the coins in Box B. Find the amount of money in Box A.

Answer: _____ [4]

16. In the figure shown below, PQRS is a trapezium. PS // VR and VR = QR. PST is a straight line.

a) Find ∠e.

b) Find ∠f.



Answer: (a)_____ [3]

(b) _____ [2]

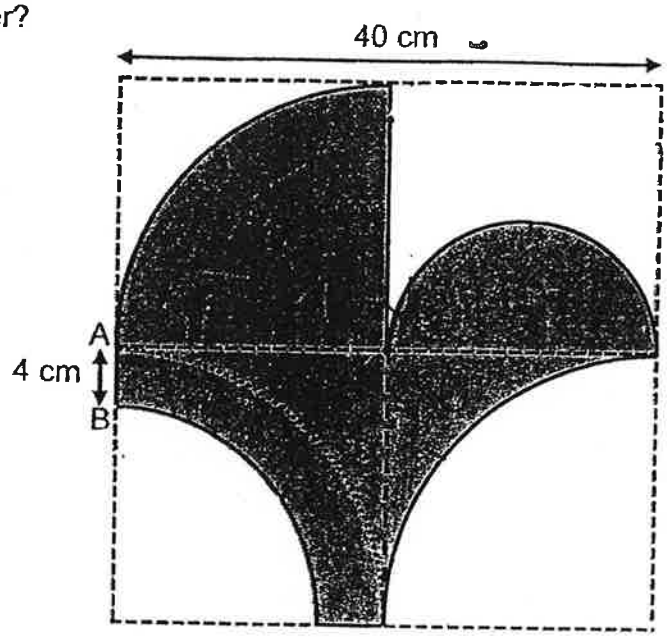
Sub-Total :

17. A figure is drawn on a square piece of paper with length 40 cm as shown below. Its outline consists of 2 identical large quarter circles, 1 smaller quarter circle, 1 semicircle and 3 straight lines. The length of AB is 4 cm.

(a) What is the area of the figure?

(b) What is its perimeter?

(Take $\pi = 3.14$)



Answer: (a) _____ [3]

(b) _____ [2]

End of Paper 2

Sub-Total :

ANSWER KEY

YEAR : 2019
LEVEL : PRIMARY 6
SCHOOL : Anglo-Chinese School (Junior)
SUBJECT : Mathematics
TYPE : Preliminary

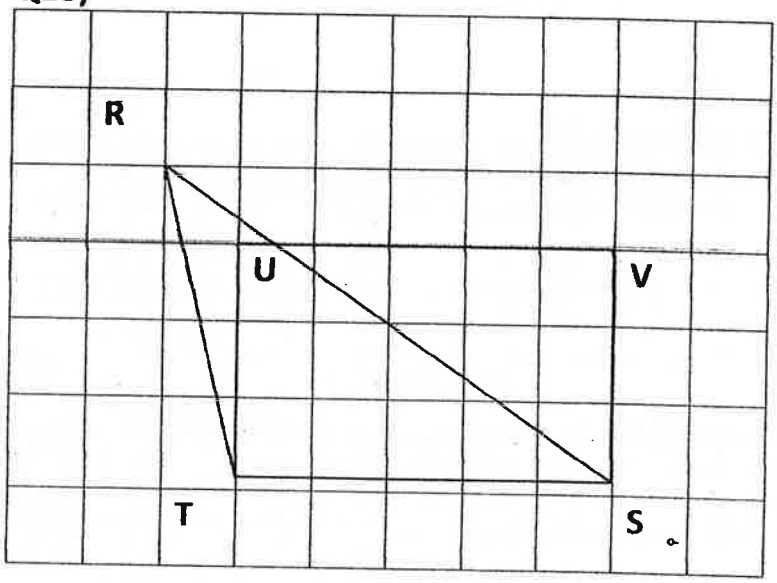
Free Delivery: 9851 8229, 9857 8226, 8161 2644, 9385 8586

Booklet A

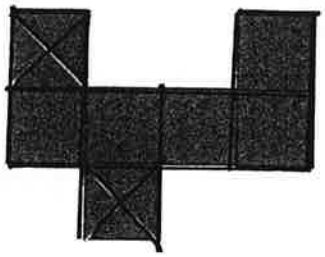
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	4	1	2	3	4	2	3	1	3
Q11	Q12	Q13	Q14	Q15					
1	3	3	2	4					

Booklet B

Q16) 1.34p.m.
Q17) 0.27
Q18) 6m
Q19) 1.992
Q20) 47 cubes
Q21) 256cm^2
Q22) 3m + 14 pencils
Q23) 6
Q24) 20 cows
Q25) 42 stickers
Q26) $1800
Q27) 182 candies
Q28)



29)



Free Delivery: 9851 8229, 9851 8226, 8161 2644, 9385 8586

30) 107°

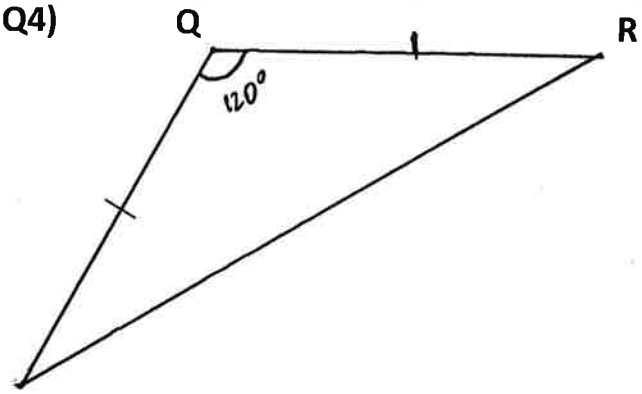
Paper 2

Q1) 47.7cm

Q2) 13.3

Q3) 936 beads

Q4)



Q5) $3.20

Q6) $40.80

Q7) 13°

Q8a) $32n

Q8b) n=8

Q9a) Tuesday to Wednesday

Q9b) Monday and Friday

Q10) 3km

Q11a) 106 total mangoes, grapes and apples

Q11b) 30 apples

Q12a) 4:1

Q12b) 100 children in group A

Q13) 13cm

Q14) $360

Q15) $27.50

Q16a) 86°

Q16b) 28°

Q17a) 756.04cm^2

Q17b) 147.32cm