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Anglo-Chinese School (Junior)



**PRELIMINARY EXAMINATION (2023)**

**PRIMARY 6  
MATHEMATICS  
PAPER 1  
(Booklet A)**

**18 August 2023**

**Total Time for Booklets A and Booklet B : 1 hour**

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 2B pencil to shade your answers on the Optical Answer Sheet (OAS).
5. The use of calculators is **NOT** allowed.

**This booklet consists of 8 printed pages.**

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.  
(20 marks)

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1 Express 56 hundredths as a decimal.

(1) 0.056

(2) 0.56

(3) 5.6

(4) 56.0

2 Round 84 596 to the nearest thousand.

(1) 80 000

(2) 84 000

(3) 84 600

(4) 85 000

3 Which one of the following fractions is closest to  $\frac{1}{2}$ ?

(1)  $\frac{7}{8} + \frac{1}{7}$

(2)  $\frac{8}{7}$

(3)  $\frac{8}{9}$

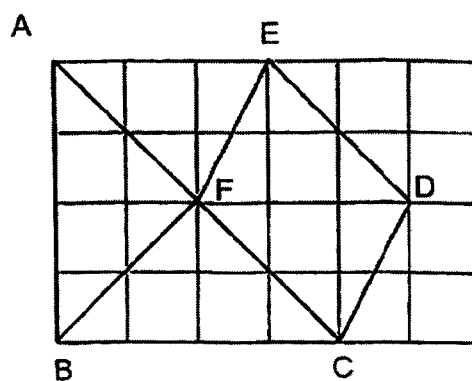
(4)  $\frac{9}{8}$

3

4 How many sixths are there in  $2\frac{2}{3}$  ?

- (1) 16
- (2) 14
- (3) 12
- (4) 8

5 Which of the following lines is perpendicular to AC?



- (1) AB
- (2) CD
- (3) ED
- (4) FB

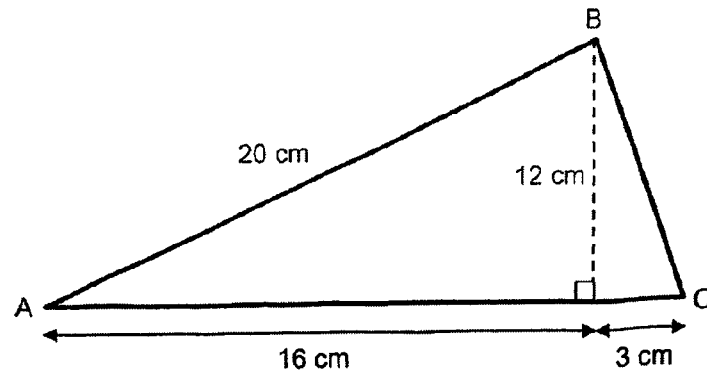
6 The average mass of a group of 3 boys is 38 kg. Hashim, whose mass is 42 kg, joined the group. What is the average mass of the new group?

- (1) 24 kg
- (2) 39 kg
- (3) 40 kg
- (4) 52 kg

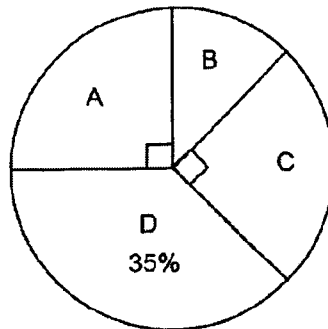
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4

- 7 Find the area of triangle ABC shown below.



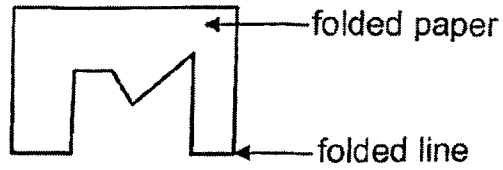
- (1)  $96 \text{ cm}^2$   
 (2)  $114 \text{ cm}^2$   
 (3)  $190 \text{ cm}^2$   
 (4)  $228 \text{ cm}^2$
- 8 The pie chart shows how Rory spent his pocket money last month.



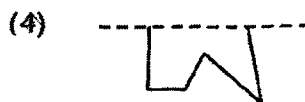
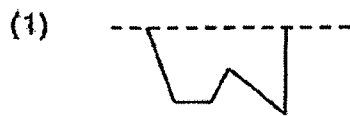
He spent \$30 more on item D than item C. How much did he spend on item B?

- (1) \$70  
 (2) \$60  
 (3) \$45  
 (4) \$25

- 9 A piece of paper is folded and a symmetrical figure is cut out from it.

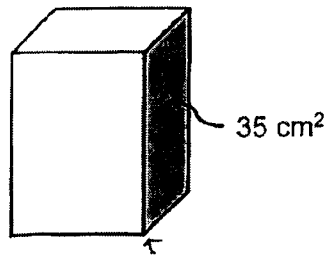


Which one of following shows half of the symmetrical figure that is cut out with the dotted line as the line of symmetry?



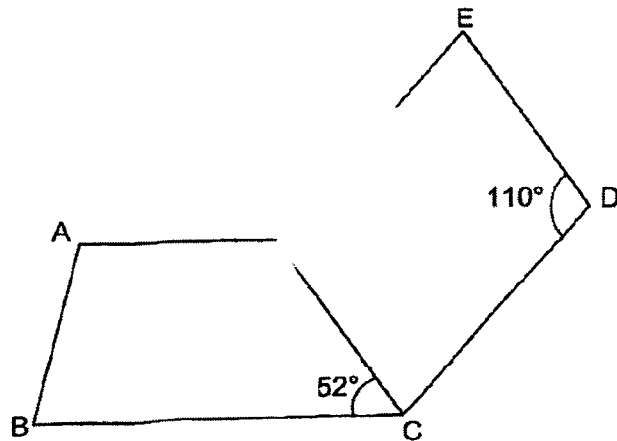
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- 10 A cuboid has a square base area of  $25 \text{ cm}^2$ . The area of the shaded face is  $35 \text{ cm}^2$ .



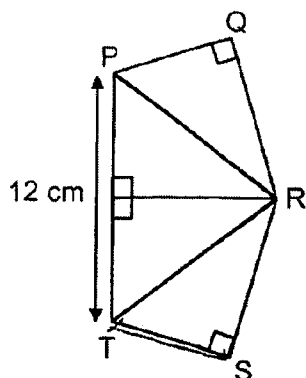
What is the volume of the cuboid?

- (1)  $125 \text{ cm}^3$   
 (2)  $175 \text{ cm}^3$   
 (3)  $245 \text{ cm}^3$   
 (4)  $875 \text{ cm}^3$
- 11 In the figure below,  $ABCF$  is a trapezium and  $CDEF$  is a parallelogram.  $AF \parallel BC$ ,  $\angle EDC = 110^\circ$  and  $\angle BCF = 52^\circ$ . Find  $\angle AFE$ .



- (1)  $122^\circ$   
 (2)  $128^\circ$   
 (3)  $140^\circ$   
 (4)  $162^\circ$

- 12 Jonathan used 4 identical right-angled triangles to form a figure PQRST shown below.  $PT = 12$  cm. The perimeter of the figure is 40 cm. Find the area of PQRST.



- (1)  $48 \text{ cm}^2$   
 (2)  $96 \text{ cm}^2$   
 (3)  $144 \text{ cm}^2$   
 (4)  $192 \text{ cm}^2$
- 13 The table shows the parking charges for a motorist in a shopping centre.

	7 am to 6 pm	After 6 pm
1 <sup>st</sup> hour	\$2.20	\$2.50 per entry
Subsequent 30 minutes or part thereof	\$1.50	

Mr Lim parked his car from 4 p.m. to 7 p.m. How much parking charges did he pay?

- (1) \$6.20  
 (2) \$6.90  
 (3) \$7.70  
 (4) \$8.50

(Go on to the next page)

- 14 There were a total of 800 adults and children at a stadium. 70% of them were adults. Some adults left the stadium and the ratio of the number of adults to the number of children became 5 : 3. How many adults left the stadium?
- (1) 60  
(2) 70  
(3) 160  
(4) 210
- 15 Su Lin and Tina made some necklaces over 2 days. On Monday, Su Lin made 17 more necklaces than Tina. On Tuesday, Su Lin made 30 necklaces and Tina made 11 necklaces. At the end of the 2 days, Tina made  $\frac{1}{4}$  of the total number of necklaces. How many necklaces did Su Lin make?
- 1) 54  
2) 57  
3) 64  
4) 72

**End of Booklet A**

(Go on to Booklet B)

Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided.  
For questions which require units, give your answers to the units stated. (5 marks)

- 16 Find the value of  $85 + 4 \times (15 - 6 \div 3)$ .

Ans : \_\_\_\_\_

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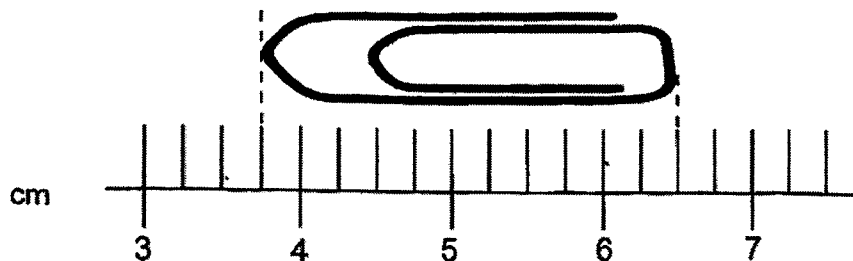
- 17 Find the value of  $9000 + 9 + \frac{9}{100} + \frac{9}{1000}$ .

Give your answer as a decimal.

Ans : \_\_\_\_\_

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- 18 What is the length of the clip as shown in the diagram?



Ans : \_\_\_\_\_ cm

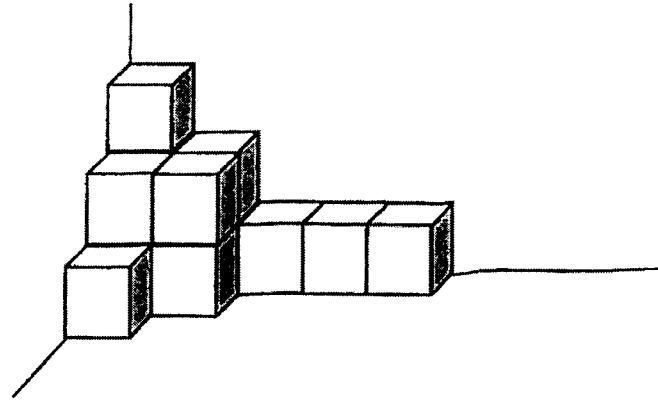
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3

19

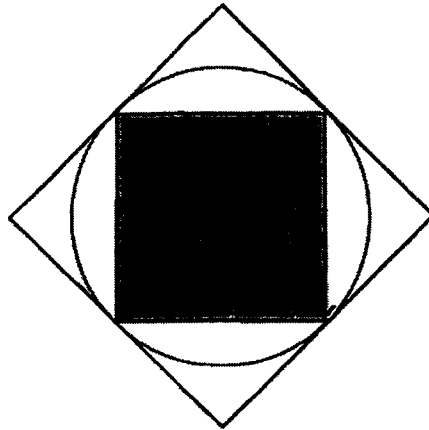
The figure below is made up of 1-cm cubes. What is the volume of the figure?



Ans : \_\_\_\_\_  $\text{cm}^3$

20

The figure below shows a circle drawn inside a square. A shaded square is then drawn inside the circle.



What fraction of the figure is shaded?

Ans : \_\_\_\_\_

Sub-Total :

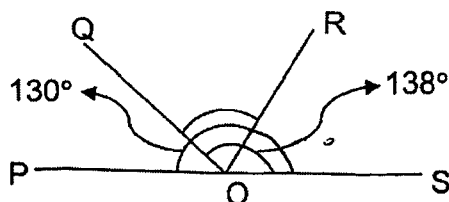
Questions 21 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which requires units, give your answers in the units stated.  
(20 marks)

- 21 Arrange the following from the smallest to the greatest.

$$\frac{21}{5}, 2.15, 2\frac{1}{5}$$

Ans: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

- 22 In the figure, POS is a straight line.  $\angle QOS = 138^\circ$  and  $\angle POR = 130^\circ$ . Find  $\angle QOR$ .

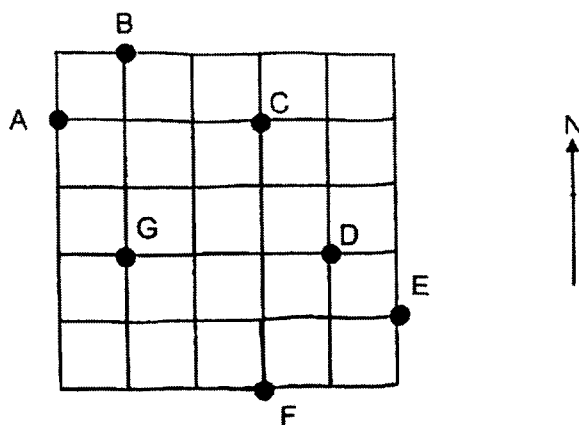


Ans : \_\_\_\_\_°

Sub-Total :

5

- 23 The square grid below shows the positions of points A, B, C, D, E, F and G.



- (a) In what direction is point E from point B?

Ans : \_\_\_\_\_

- (b) Kayel stood at one of the points facing C. After he turned  $45^\circ$  anti-clockwise, he faced G. Which point was Kayel at?

Ans : Point \_\_\_\_\_

Sub-Total :

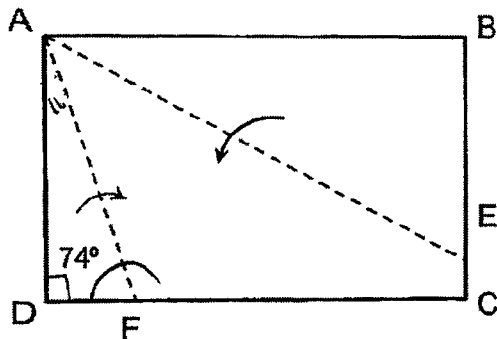
24

A box with 24 erasers has a mass of 0.67 kg. The same box with 44 similar erasers has a mass of 1.21 kg. Find the mass of 1 eraser. Express your answer in kg.

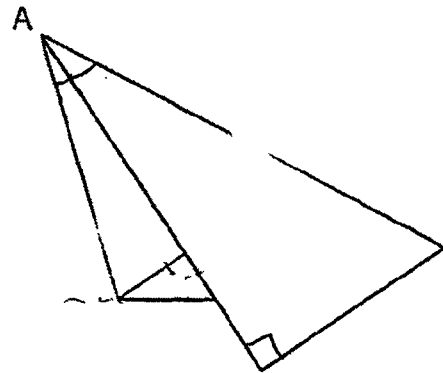
Ans : \_\_\_\_\_ kg

25

Shane had a rectangular piece of paper ABCD.  $\angle AFD = 74^\circ$ . He folded it along line AE and AF as shown below. Find  $\angle y$ .



Before folding



After folding

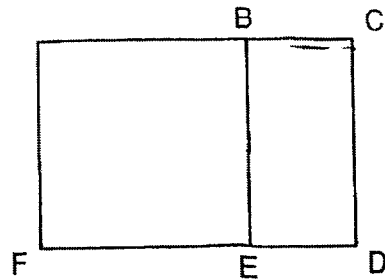
Ans : \_\_\_\_\_ °

Sub-Total

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26

Rectangle ACDF shown below is made up of a square and a rectangle. The perimeter of rectangle ACDF is  $(2y + 15)$  cm. The perimeter of the square ABEF is 16 cm.



- (a) Find the perimeter of rectangle BCDE in terms of  $y$ . Give your answer in its simplest form.

Ans : (a) \_\_\_\_\_ cm

- (b) Find the perimeter of the rectangle BCDE when  $y = 3$

Ans : (b) \_\_\_\_\_ cm

Sub-Total :

- 27 The table below shows the price of economical rice at four different stalls at a hawker centre.

Food	Lowest Price (\$)	Highest Price (\$)
A	4.20	8.80
B	6.00	10.30
C	3.70	6.20
D	4.60	12.50

- (a) Raymond wanted to buy food from 2 of the stalls. He had \$8. Which two stalls could he buy food from?

Ans : (a) Stall \_\_\_\_\_

and stall \_\_\_\_\_

- (b) Xue Ling had \$20. She bought food from one of the stalls and had \$9.50 left. Which stall did she buy her food from?

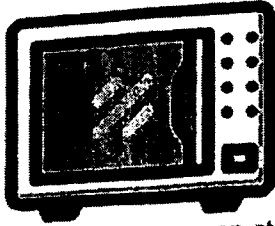
Ans : (b) Stall \_\_\_\_\_

Sub-Total :

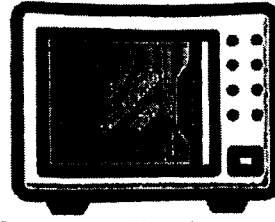
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ACSJ

28

**BIG SALE!!!**

Buy first toaster oven at  
10% discount



Buy second toaster oven at  
20% discount

Price of 2<sup>nd</sup> toaster oven should be equal to or lower than price of 1<sup>st</sup> toaster oven.

Uncle Jaime bought 2 toaster ovens at the sale. The two toaster ovens were priced at \$40 and \$60. How much did he pay for the two toaster ovens?

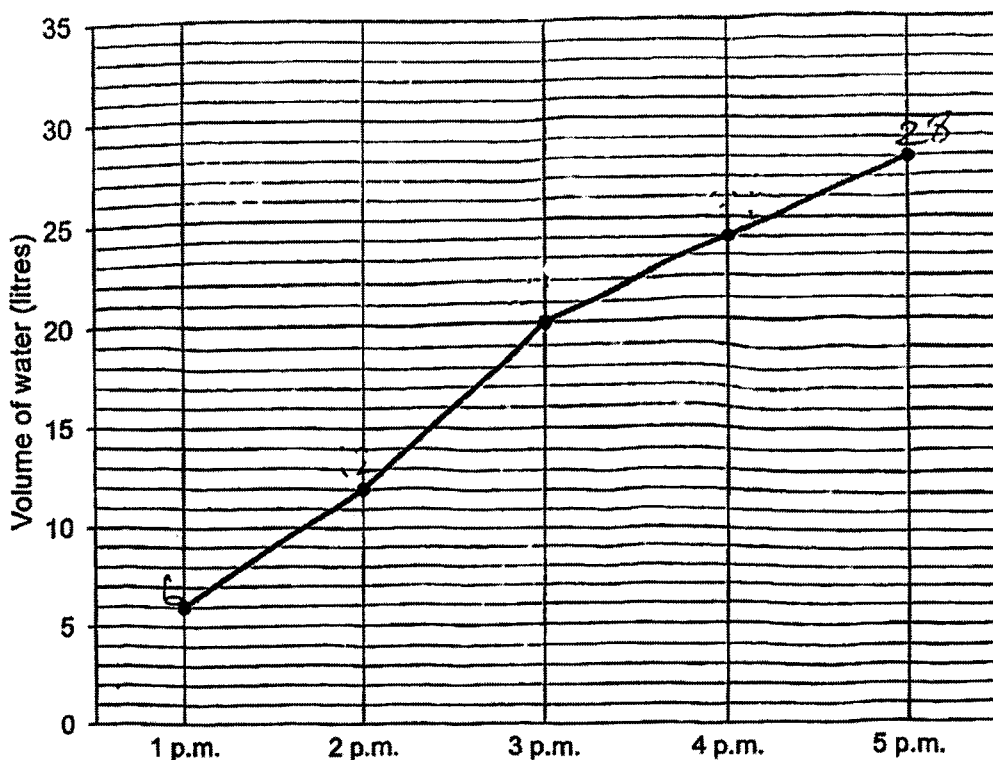
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Ans : \$ \_\_\_\_\_

Sub-Total :

- 29 The line graph shows the amount of water in a tank from 1 p.m. to 5 p.m. The tank was 20% filled at 1 p.m. Water flowed into the tank from 1 p.m. to 5 p.m.



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- (a) During which 1-hour interval was the flow into the tank the greatest?

Ans : (a) \_\_\_\_\_ to \_\_\_\_\_

- (b) At 5 p.m., what fraction of the tank was filled with water?

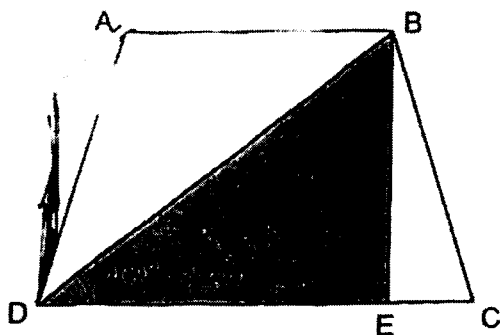
Ans : (b) \_\_\_\_\_

Sub-Total :

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30

In the figure below, ABCD is a trapezium and  $AD = BC$ .



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

Statement	True	False	Not possible to tell
$AB \parallel CD$			
$\angle ADE + \angle CBE = 90^\circ$			
The shaded area is greater than the unshaded area.			

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End of Booklet B

Sub-Total :

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Anglo-Chinese School (Junior)



**PRELIMINARY EXAMINATION (2023)**

**PRIMARY 6  
MATHEMATICS  
PAPER 2**

**18 August 2023**

**Time : 1 hour 30 minutes**

Name: \_\_\_\_\_ (     )     Class: 6.(     )

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. Do not use correction fluid/tape or highlighter.
6. The use of an approved calculator is allowed.

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

This question paper consists of 19 printed pages and 1 blank 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 in the units stated.  
(10 marks)

- 1 A bag of sweets was shared equally among a group of 36 students. 12 of them gave up all of their sweets to the rest of the students. As a result, the rest of the students received 5 more sweets each. How many sweets were there in the bag at first?

Ans : \_\_\_\_\_

- 2 A box contained some red and yellow balls. At first, the number of red balls to the number of yellow balls is 1 : 3. After  $\frac{1}{4}$  of the red balls and  $\frac{3}{8}$  of the yellow balls were taken out, there were 63 balls left in the box. How many yellow balls were there in the box at first?

Ans : \_\_\_\_\_

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Sub-Total :

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- 3 The table shows the amount of money Jamie spent at a restaurant for the first three weeks.

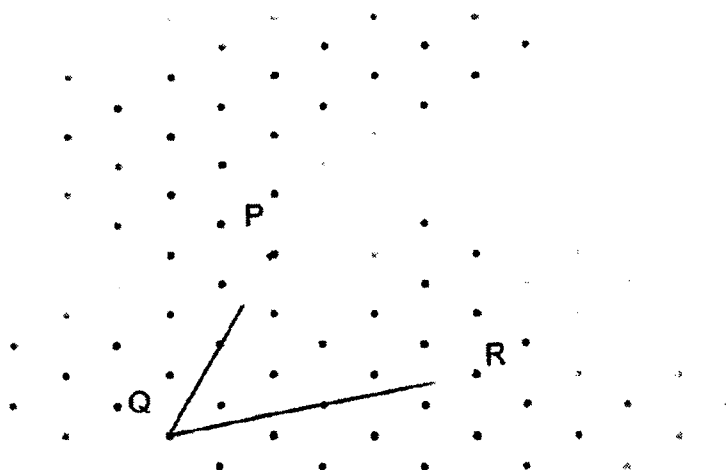
Week	Amount spent (\$)
1	36
2	39
3	37
4	?

Jamie will get a free meal if the average amount of money he spent for three of the four weeks is \$40 or more. What is the smallest amount Jamie must spend in Week 4 to receive the free meal?

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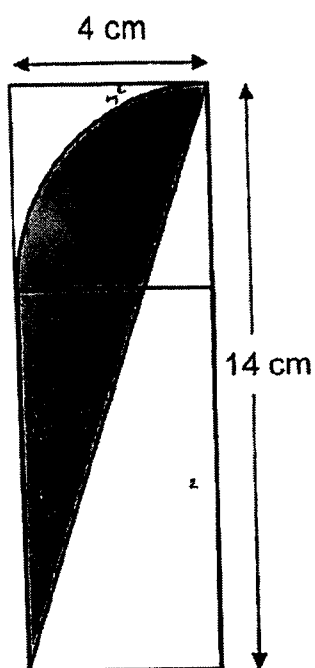
- 4 In the grid below, 2 sides of a trapezium PQRS have been drawn. Complete the drawing of trapezium PQRS where PQ is parallel to RS and RS is twice as long as PQ. Label dot S.



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Sub-Total :

- 5 The figure is made up of a rectangle, a square and a quadrant. Find the area of the shaded part. (Take  $\pi = 3.14$ )



Ans : \_\_\_\_\_  $\text{cm}^2$

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Sub-Total :

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ACSI

5

For questions 6 to 17, 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. (45 marks)

- 6 Mrs Lee wrote the word RESILIENCE repeatedly as shown. Study the letters below carefully and answer the questions that follow.

R E S I L I E N C E R E S I L I E N C E R E S I L I E N C E ...  
           3 4 5 6       3

- (a) How many 'E's are there in the 1<sup>st</sup> 100 letters?

Ans : (a) \_\_\_\_\_ [1]

- (b) How many letters are there altogether up to the 101<sup>st</sup> 'E'?

Ans : (b) \_\_\_\_\_ [2]

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Sub-Total :

- 7 The table shows the number of seashells collected by 3 boys.

Name	Number of seashells
Jim	17
Ken	$x$
Leo	$6x - 5$

- (a) Express the total number of seashells the 3 boys have in terms of  $x$  in the simplest form.

Ans : (a) \_\_\_\_\_ [1]

- (b) If the average number of seashells the 3 boys collected is 39, what is the value of  $x$ ?

Ans : (b) \_\_\_\_\_ [2]

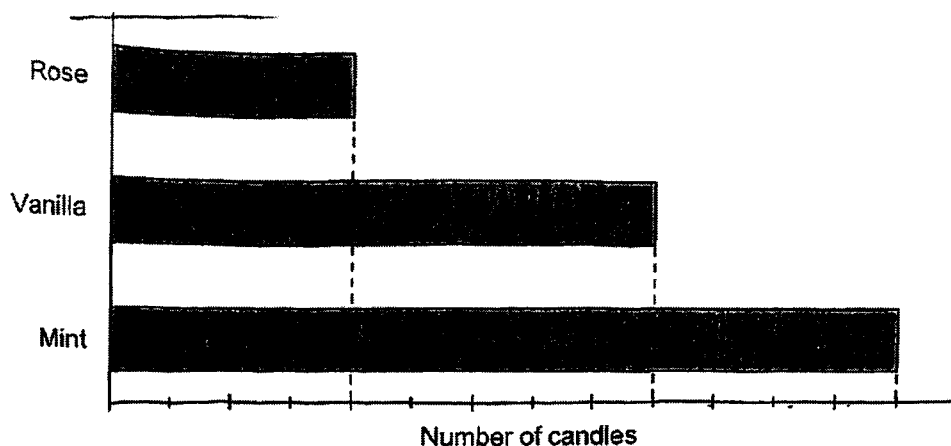
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Sub-Total :   
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AC6J

7

- 8 Alisha bought candles of 3 different fragrances. The bar graph shows the number of each type of candle that she bought. The number of candles she bought is not shown on the scale.



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- (a) What percentage of the candles Alisha bought were mint candles?

Ans : (a) \_\_\_\_\_ [1]

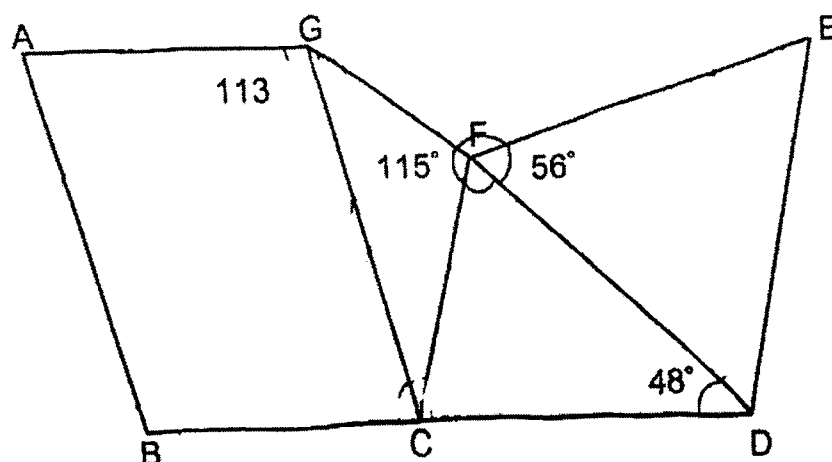
- (b) The price of each rose candle is \$12.80. Alisha spent \$153.60 on rose candles. How many vanilla candles did she buy?

Ans : (b) \_\_\_\_\_ [2]

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Sub-Total :

- 9 In the figure below,  $ABCG$  is a parallelogram and  $CDEF$  is a trapezium.  $EF = ED$  and  $BCD$  is a straight line.  $\angle AGC = 113^\circ$ ,  $\angle GFC = 115^\circ$ ,  $\angle EFD = 56^\circ$  and  $\angle CDF = 48^\circ$



- (a) Find  $\angle FCD$ .

Ans : (a) \_\_\_\_\_ [1]

- (b) Find  $\angle CGF$ .

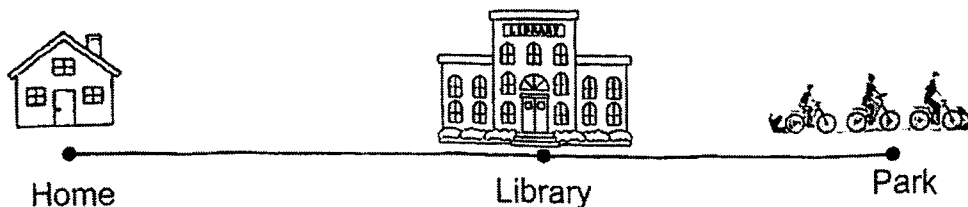
Ans : (b) \_\_\_\_\_ [2]

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Sub-Total :

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- 10 Munirah cycled from her home to a park. On her way, she had to cycle past a library.



She cycled at an average speed of 15 km/h for  $\frac{1}{2}$  h from her home to the library. She then cycled the remaining  $\frac{2}{5}$  of the journey for 45 minutes.

- (a) What was the distance she cycled from her home to the library?

Ans : (a) \_\_\_\_\_ [1]

- (b) What was her average speed for the whole journey?

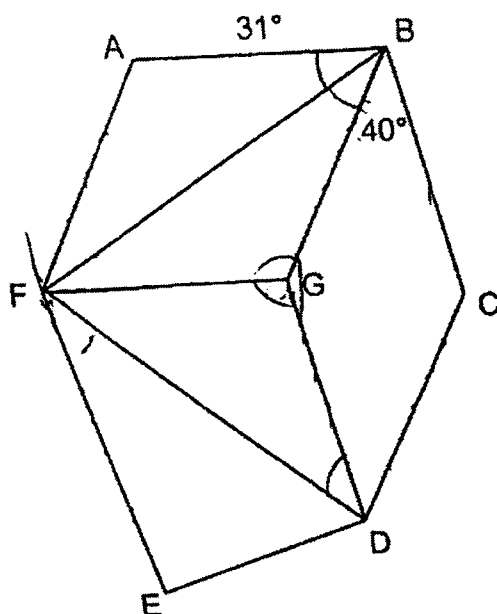
Ans : (b) \_\_\_\_\_ [2]

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- 11 In the figure below, ABGF and BCDG are rhombuses.  $\angle ABF = 31^\circ$ ,  $\angle CBG = 40^\circ$  and EF is parallel to DG.



- (a) Find  $\angle FGD$ .

Ans : (a) \_\_\_\_\_ [3]

- (b) Find  $\angle DFE$ .

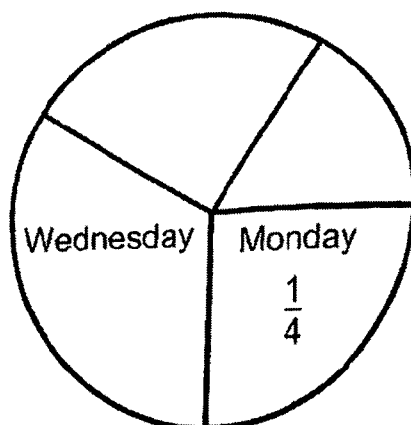
Ans : (b) \_\_\_\_\_ [2]

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- 12 The pie chart below shows the amount of pasta sold from Monday to Thursday.



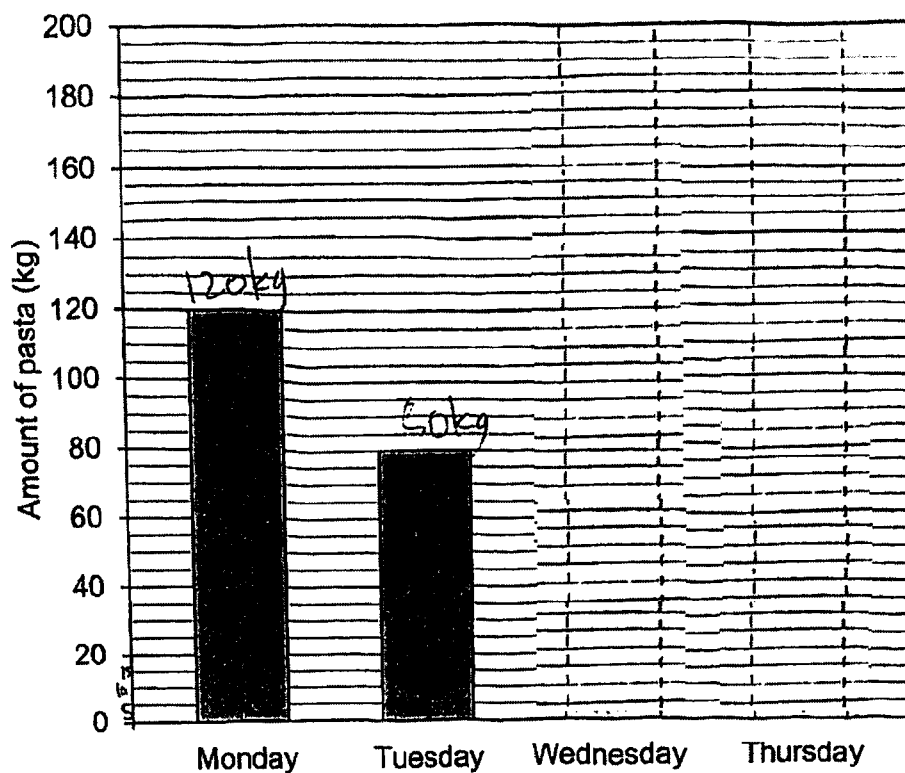
- (a) The ratio of the amount of pasta sold on Wednesday to the amount of pasta sold to Monday was 3 : 2. What fraction of the amount of pasta was sold on Wednesday?

Ans : (a) \_\_\_\_\_ [1]

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Sub-Total :

The amount of pasta sold is also represented by the bar graph below. The bars for the amounts of pasta sold on Wednesday and Thursday have not been drawn.



- (b) Draw the bars for the amount of pasta sold on Wednesday and Thursday in the graph above. [3]

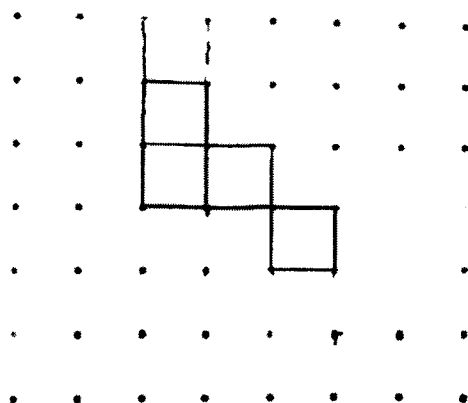
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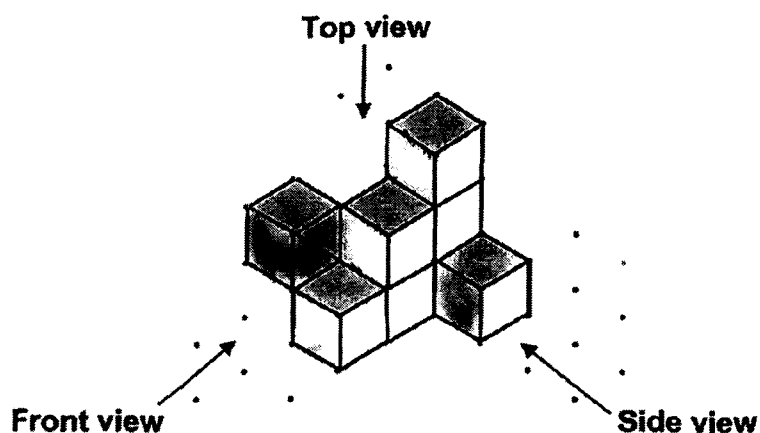
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13 Terry made a cube using cardboard.

- (a) Draw 2 more squares in the grid below to complete the net of the cube which Terry made. [1]

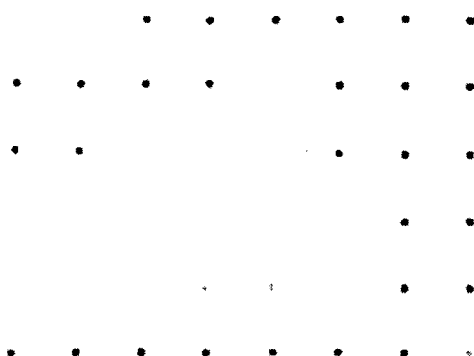


Terry then made 9 identical cardboard cubes to form solid P as shown below.



- (b) Draw the front view of solid P on the dot grid below. [1]

Front view



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Sub-Total :

- (c) All the cubes were rearranged and glued together to form solid Q such that when the whole solid Q is painted blue including the base, the number of unpainted faces would be the least possible. How many faces were painted blue?

Ans : (c) \_\_\_\_\_ [2]

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- 14 Mr. Kassim had some mangoes and apples for sale. He sold 144 mangoes. 40% of the fruits he sold were apples.

(a) How many fruits did Mr Kassim sell altogether?

Ans : (a) \_\_\_\_\_ [1]

- (b) He sold 30% of his fruits. 70% of the fruits left unsold were mangoes. How many apples did Mr. Kassim have at first?

Ans : (b) \_\_\_\_\_ [3]

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Sub-Total :

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- 15 Raju, Sam and Tristan had a total of \$435. Raju spent  $\frac{4}{5}$  of his money, Sam spent  $\frac{2}{3}$  and Tristan spent  $\frac{3}{4}$  of his money. In the end, Raju had \$55 more than Sam and Tristan had \$10 more than Sam. How much money did Tristan have at first?

Ans : \_\_\_\_\_ [4]

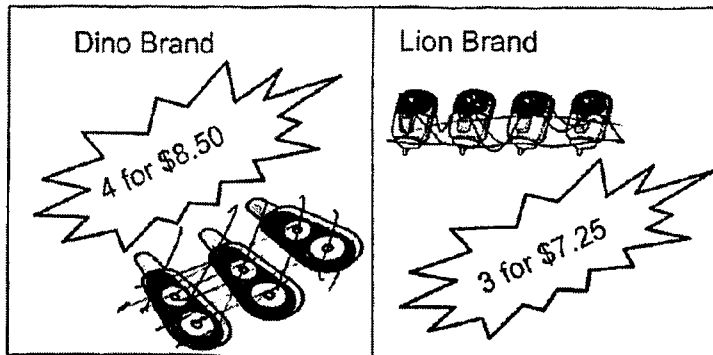
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Please do not write in the margin.

Sub-Total :

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- 16 Matt bought some Dino Brand and Lion Brand correction tapes at the prices shown below.



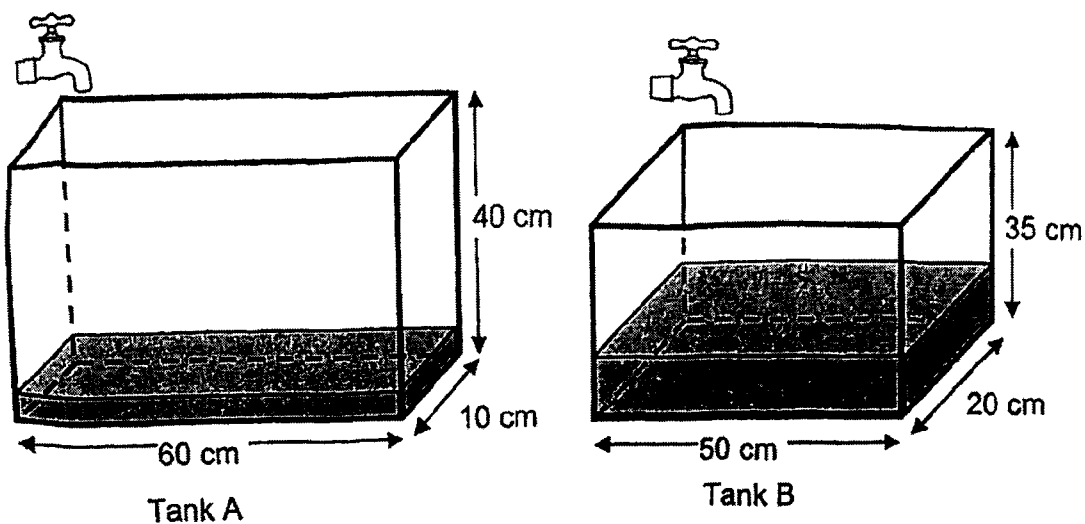
$\frac{1}{3}$  of the correction tapes Matt bought was Lion Brand correction tapes. He spent \$198 more on Dino Brand correction tapes. How much did he spend on the correction tapes?

Ans : \_\_\_\_\_ [4]

Please do not write in the margin.

Sub-Total :

- 17 Two rectangular tanks are shown below.



At the beginning, Tank A was  $\frac{1}{10}$  filled with water and Tank B was  $\frac{2}{5}$  filled with water. Both tanks had taps turned on at the same time and water flowed from both taps at the same rate of 1.2 litres per minute.

- (a) How long will it take for the height of the water to be the same in both tanks?

Ans : (a) \_\_\_\_\_ [3]

Please do not write in the margin.

Sub-Total :

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ACSU

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(b) At what height will this happen?

Please do not write in the margin.

Ans : (b) \_\_\_\_\_ [2]

**End of Paper 2**

Please do not write in the margin.

Sub-Total :



SCHOOL : ACS PRIMARY SCHOOL

LEVEL : PRIMARY 6

SUBJECT : MATH

TERM : 2023 PRELIM

**BOOKLET A**

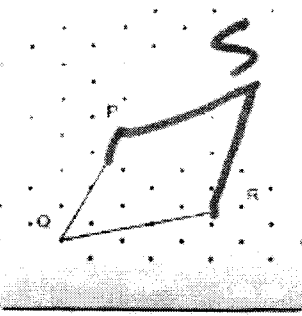
Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
2	4	3	1	4	2	2	3	3	2
Q11	Q12	Q13	Q14	Q15					
1	2	3	3	1					

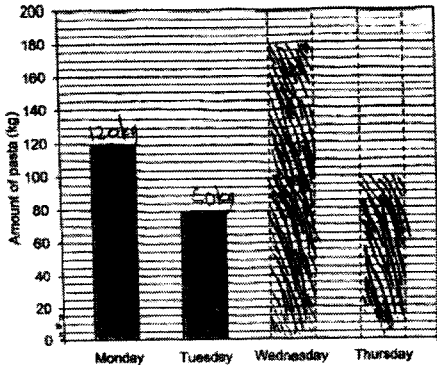
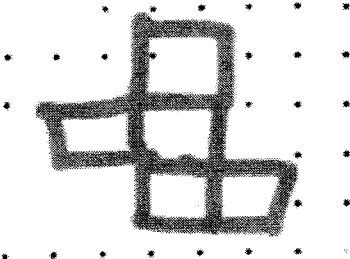
Q16)	137
Q17)	9009.099
Q18)	2.75
Q19)	13
Q20)	$\frac{1}{2}$
Q21)	2.15 . 2/1/5, 21/5
Q22)	88 degree
Q23)	Southeast / F
Q24)	$(1.21 - 0.67) / 20 = 0.027\text{kg}$
Q25)	$90 - 74 = 16 \times 2 = 32$ $(90 - 32)/2 = 29$
Q26)	a) $4 \times 2 = 8$ $(2y + 15 - 16) / 2 = (y + 7/1/2)$ b) $3 + 7.5 = 10.5$
Q27)	$4.20 + 3.70 = 7.90$

	(A & C) $20 - 9.5 = 10.5 \text{ } \textcircled{C}$
Q28)	$60 \times 0.9 = 54$ $40 \times 0.8 = 32$ $54 + 32 = 86$
Q29)	2-3pm $22/30 = 73.3\%$
Q30)	True False false

## Paper 2

Q1)	$(36 - 12) \times 5 = 120$ $120 / 12 = 10$ $36 \times 10 = 360$
Q2)	R : Y 1 : 3 6 : 15 $21u = 63$ $1u = 3$ 8 : 24 $24u = 72$
Q3)	$3 \times 40 = 120$ $120 - 39 - 37 = 44$

Q4)	
Q5)	$\frac{1}{2} \times 14 \times 14 = 98$ $\frac{1}{2} \times 4 \times 4 = 8$ $\frac{1}{4} \times 22/7 \times 4 \times 4 = 12.57$
Q6)	a) $3/10$ (3 E for 10 letters) $3 \times 10 = 30$ b) $101 \text{ E} = 10 \times 43 + 7 = 437 \text{ letters}$
Q7)	a) $7x + 12$ b) $7x + 12 = 39 \times 3$ $X = 15$
Q8)	a) $3/6 = 50\%$ b) $153.60 / 12.8 \times 2 = 24$
Q9)	a) $180 - 48 - 56 = 76$ b) $180 - 113 = 67$ $180 - 67 - 67 = 37$ $180 - 115 - 37 = 28$
Q10)	a) $15 \times \frac{1}{2} = 7.5$ $3u = 7.5$ $2u = 5$ b) $7.5 + 5 = 12.5$ $12.5 / (\frac{1}{2} + \frac{3}{4}) = 10\text{km/h}$

Q11)	<p>a) <math>180 - 62 = 118</math></p> <p>b) <math>(180 - 102) / 2 = 39</math></p> <p><math>180 - 102 - 39 = 39</math></p>										
Q12)	<p>a) <math>\frac{1}{4} = \frac{2}{8}</math></p> <p><math>2u = \frac{2}{8}</math></p> <p><math>3u = \frac{3}{8}</math></p> <p><math>2u = 120</math></p> <p><math>3u = 180</math></p> <p>b)</p>  <table border="1"> <caption>Data from Bar Chart</caption> <thead> <tr> <th>Day</th> <th>Amount of pasta (kg)</th> </tr> </thead> <tbody> <tr> <td>Monday</td> <td>120</td> </tr> <tr> <td>Tuesday</td> <td>50</td> </tr> <tr> <td>Wednesday</td> <td>180</td> </tr> <tr> <td>Thursday</td> <td>100</td> </tr> </tbody> </table>	Day	Amount of pasta (kg)	Monday	120	Tuesday	50	Wednesday	180	Thursday	100
Day	Amount of pasta (kg)										
Monday	120										
Tuesday	50										
Wednesday	180										
Thursday	100										
Q13)	<p>Front view</p> 										

Q14)	<p>a) <math>60\% = 144</math>  <math>100\% = 240</math></p> <p>b) <math>30\% = 240</math>  <math>70\% = 560</math>  <math>100\% = 560</math>  <math>30\% = 168</math>  <math>168 + 96 = 264</math></p>
Q15)	<p><math>R = 5u + 5 \times 55</math>  <math>S = 3u</math>  <math>T = 4u + 4 \times 10</math>  <math>(435 - 40 - 275) / 12u = 10</math>  <math>1u = 10</math>  <math>T = 10 \times 4 + 40 = 80</math></p>
Q16)	<p><math>4 \times 3 \text{ set} = 12</math>  <math>3 \times 2 \text{ set} = 6</math>  <math>8.5 \times 3 = 25.5</math>  <math>7.25 \times 2 = 14.5</math>  <math>25.5 - 14.5 = 11</math>  <math>198 / 11 = 18 \text{ group}</math>  <math>(25.5 + 14.5) \times 18 = \\$720</math></p>
Q17)	<p><math>40 \times 1/10 = 4\text{cm}</math>  <math>35 \times 2/5 = 14\text{cm}</math>  <math>14 - 4 = 10\text{cm different}</math>  <math>50 \times 20 - 60 \times 10 = 400 \text{ different in surface}</math>  <math>400 \times 10 / 1200 = 3 \text{ min } 20 \text{ sec}</math>  <math>1200 \times 3 \text{ min } 20\text{sec} / 1000 + 14\text{cm} = 18\text{cm}</math></p>

