

Rosyth School Mid-Year Examination 2019 MATHEMATICS Paper 1 Primary 6

Name		Register No.
Class:	Pr 6	
Date:	15 May 2019	Parent's Signature:
Total 7	Time for Booklets A and B :	1 hour
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Booklet A

Instructions to Pupils:

- 1. Do not open this booklet until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Shade your answers in the Optical Answer Sheet (OAS) provided.
- 4. You are <u>not</u> allowed to use a calculator.
- 5. Answer all questions.

Section	Maximum Mark	Marks Obtained
Paper 1 (Booklet A)	20	

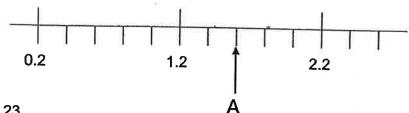
^{*} This booklet consists of **8** pages (including this cover page)

This paper is not to be reproduced in part or whole without the permission of the Principal. 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). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

All diagrams in this paper are not drawn to scale unless stated otherwise.

(20 marks)

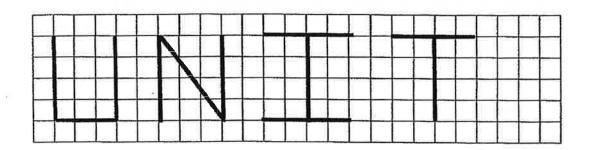
1. Part of a scale is shown below. What is the value of the reading at A?



- (1) 1.23
- (2) 1.26
- (3) 1.5
- (4) 1.6

- 2. Which of the following fractions is the largest?
 - (1) $\frac{3}{8}$
 - (2) $\frac{3}{4}$
 - (3) $\frac{3}{11}$
 - (4) $\frac{3}{5}$

3. In the diagram below, the letters U, N, I and T are drawn on a square grid.



Which letters have both parallel and perpendicular lines?

- (1) U and N only
- (2) U and I only
- (3) N and I only
- (4) I and T only
- 4. The table below shows the time taken by 4 runners in a 400 m competition.

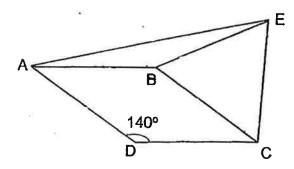
Runners

Swimmer	Time taken (seconds)
Amelia	83.2
Banu	81.8
Caden	92.9
Decaf	92.1

Who came in 3rd in the competition?

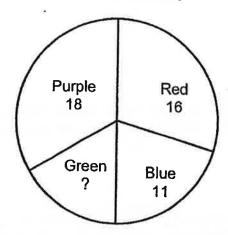
- (1) Amelia
- (2) Banu
- (3) Caden
- (4) Decaf

5. In the figure below, ABCD is a rhombus and BEC is an equilateral triangle. Find ∠ABE.



- (1) 40°
- (2) 140°
- (3) 160°
- (4) 200°
- 6. The pie chart represents the favorite colour chosen by a group of students. Half of them chose red and blue. How many students chose green?

Favorite Colours



- (1) 7
- (2) 9
- (3) 18
- (4) 25

- 7. Claire had \$6. She bought 2 identical hair clips and had \$y left. What was the cost of each hair clip?
 - (1) \$(3 2y)
 - (2) $\$ (6 \frac{y}{2})$
 - (3) \$ (6 2y)
 - (4) $\$ (\frac{6-y}{2})$

- 8. Alynna has 70 beads. 14 are red and the rest are blue. What is the ratio of the number of red beads to the number of blue beads?
 - (1) 1:4
 - (2) 1:5
 - (3) 4:1
 - (H) 4:5
- 9. The coffee shop is 500 m from Han's house. Han took 10 minutes to walk to the coffee shop and back to his house. What was Han's average walking speed?
 - (1) 25 m/ min
 - (2) 50 m/ min
 - (3) 100 m/ min
 - (4) 250 m/ min

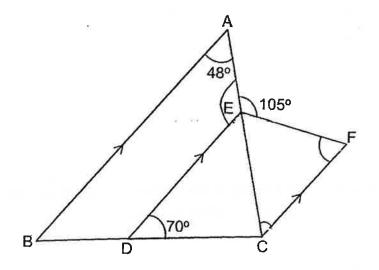
- 10. A supermarket sold 50 oranges for \$20. How much did each orange cost?
 - (1) 25¢
 - (2) 40¢
 - (3) 50¢
 - (4) 4¢
- 11. Boston gave $\frac{1}{6}$ of his salary to his mother and spent $\frac{1}{3}$ of the remainder. What fraction of his salary did he have left?
 - (1) $\frac{1}{18}$
 - (2) $\frac{1}{2}$
 - (3) $\frac{5}{9}$
 - (4) $\frac{2}{3}$
- 12. The parcel rates to two countries is shown below.

Mass Step	China	United States
First 1 kg	\$4	\$8
Every additional 250 g	\$1.50	\$5

Alicia sent a parcel weighing 1.9 kg to China and a parcel weighing 850 g to the United States. How much did she pay altogether?

- (1) \$18
- (2) \$18.50
- (3) \$20
- (4) \$22

13. The figure below is made up of a triangle, ABC and a trapezium, CDEF. The line AB is parallel to the line DE. Find ∠CFE.

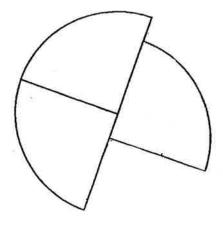


- (1) 52.5°
- (2) 57°
- (3) 61°
- (4) 70°
- 14. Kieren has 2 rectangular boxes A and B. Both Box A and Box B have square bases of different sizes. The length of the square base of Box A is twice the length of the square base of box B. Both boxes have the same height.

He packed 192 identical cubes exactly into the larger box. How many such cubes can be packed exactly into the smaller box?

- (1) 12
- (2) 24
- (3) 36
- (4) 48

- 15. The figure shown below is formed by 3 identical quadrants of radius 7 cm. Find the perimeter of the figure. Take $\pi = \frac{22}{7}$
 - (1) 47 cm
 - (2) 58 cm
 - (3) 115.5 cm
 - (4) 154 cm





Rosyth School Mid-Year Examination 2019 MATHEMATICS Paper 1 Primary 6

Name:	Re	egister No
Class: Pr 6	Group:	
Date: 15 May 2019	Parent's Signature:	
Total Time for Booklets A and	B:1 hour	
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Booklet B

Instructions to Pupils:

- 1. Do not open this booklet until you are told to do so.
- 2. Follow all instructions carefully.
- 3. You are **not** allowed to use a calculator.
- 4. Write your answers in the booklet.
- 5. Answer all questions.

Section	Maximum Mark	Marks Obtained
Paper 1 (Booklet B)	25	

^{*} This booklet consists of 8 pages (including this cover page).

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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.

Do not write in this space

All diagrams in this paper are not drawn to scale unless stated otherwise.

(5 marks)

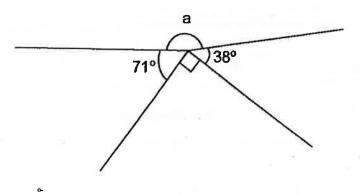
16. Find the value of $4 \times (18 - 5) + 36 \div 4$.

Ans: _____

17. How many eighths are there in $1\frac{1}{4}$?

Ans: _____

18. In the figure below, find $\angle a$.



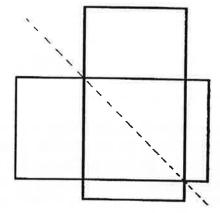
Ans: _____

19.	Edward collected 40 kg of paper is collected 25 kg of paper. What is the collected this month?

oling this month. Last month, he ntage increase in paper he

Do not write in this space

20. Draw a line of symmetry in the figure shown below.



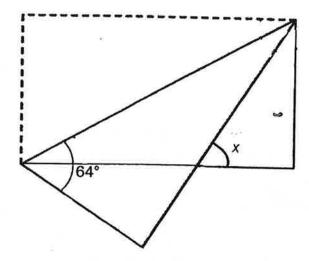
Do not write provided for each question and write your answers in the spaces provided. in this space For questions which require units, give your answers in the units stated. All diagrams in this paper are not drawn to scale unless stated otherwise. (20 marks) Jane bought 36 pencils and 45 chocolates for Children's Day. Each pupil 21. received the same number of pencils and chocolates. What is the maximum number of pupils who can receive the pencils and chocolates? Ming San has just enough money to buy 15 apples. If the price of each apple 22. is reduced by \$0.20, she will be able to buy another 6 apples with the same amount of money. What is the original price of each apple? Ans: \$ At a cinema, the ratio of the number of adults to the number of children was 23. 5: 2. The ratio of the number of men to the number of women was 1: 2. What was the ratio of the number of women to the number of children? Express your answer in the simplest form.

(Go on to the next page)

Questions 21 to 30 carry 2 marks each. Show your workings clearly in the space

24. A rectangular piece of paper was folded as shown below. Find $\angle x$.

Do not write in this space



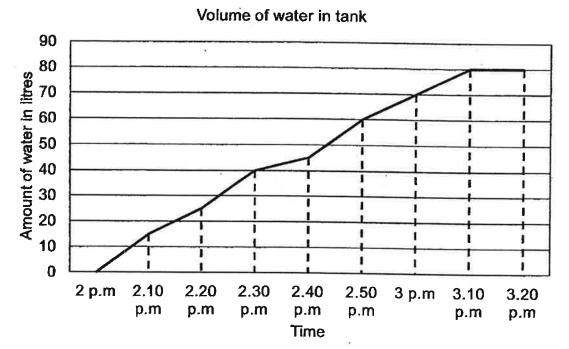
		81
Ans:	0	L.,

25. Three pupils spent the same amount of money to buy an identical book. Gabriel used $\frac{1}{7}$ of his money. Paul used $\frac{2}{5}$ of his money and James used $\frac{3}{4}$ of his money. They had a total of \$150 at first.

Statement	True	False	Not possible to tell
a) The sum of Gabriel's and Paul's money is twice as much as James.			toton
b) Each of them spent \$50 to buy the book.			

26. At 2 p.m., Zac started filling an empty tank with water. The line graph shows the volume of water in the tank from 2 p.m. to 3.20 p.m.

Do not write in this space



- (a) What is the volume of the tank?
- (b) At what time was $\frac{3}{4}$ of the tank filled with water?

Ans: (a),______

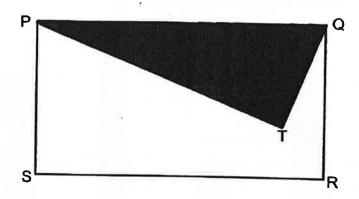
Ans: (b) _____ p.m.

27. Find the value of $\frac{8r}{3}$ - 2r + 1 when r = 4. Express your answer as a mixed number in the simplest form.

Ans: ____

28. In the figure below, PQRS is a rectangle and PQT is a triangle. The length of PQ is 13 cm. The difference between the perimeter of the unshaded figure PTQRS and the perimeter of triangle PQT is 16 cm. Find the area of rectangle PQRS.

Do not write in this space



Ans: _____ cm²

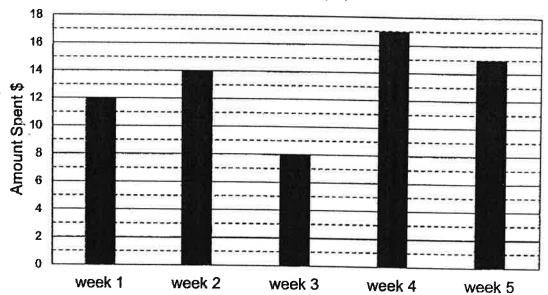
29. A student use a calculator to divide a number by one thousand. He made a mistake and pressed 2 fewer zeroes. He obtained an answer of 23.3. What should the correct answer be?

Ans: _____

30. Chloe received a pocket money of \$20 each week. The bar graph shows the amount she spent over 5 weeks.

Do not write in this space





- (a) In which week did Chloe save the most amount of money?
- (b) What was the average amount of money Chloe spent over the 5 weeks?

Ans: (a) week _____

Ans: (b) \$ _____

End of paper Have you checked your work?



Rosyth School Mid-Year Examination 2019 MATHEMATICS Paper 2 Primary 6

Name:	Register No
Class: Pr 6	
Date: 15 May 2019	Parent's Signature:
Time: 1 h 30 min	

Instructions to Pupils:

- 1. Do not open this booklet until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Show your workings clearly as marks are awarded for correct working.
- 4. Write your answers in this booklet.
- 5. You are allowed to use a calculator.
- 6. Answer all questions.

Questions	Maximum Mark	Marks Obtained
Q 1 to 5	10	
Q 6 to 17	45	

Section	Maximum Mark	Marks Obtained
Paper 1	45	
Paper 2	55	
Total	100	

^{*} This booklet consists of 14 pages (including this cover page).

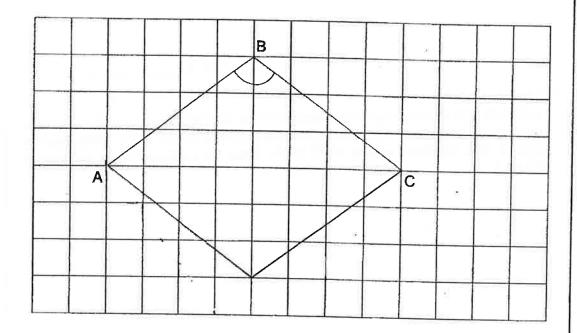
This paper is not to be reproduced in part or whole without the permission of the Principal. Do not write Questions 1 to 5 carry 2 marks each. Show your working clearly in the space in this space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks) All diagrams in this paper are not drawn to scale unless stated otherwise. Joslyn bought 3 kg of rice. She used $\frac{5}{8}$ of it. How much rice is left? Give 1. your answer in grams. Ans: 2. Jeroen finished watching a movie at 8.50 p.m. The movie was 2 hours 15 minutes long. At what time did Jeroen start watching the movie? There were 84 red beads and 57 blue beads in a container. Wendy 3. added an equal number of blue and red beads into it. The ratio of the number of red beads to the number of blue beads became 11:8. How many red beads were there in the end? Ans:

Give your answer in te	ms of j in the simplest form.	ost of a ruler is Do not in this	sp
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For Questions 6 to 17, show your working clearly in the space provided for each Do not write question and write your answers in the spaces provided. The number of marks in this space available is shown in brackets [] at the end of each question or part-question. For questions which require units, give your answers in the units stated.

(45 marks) All diagrams in this paper are not drawn to scale unless stated otherwise.

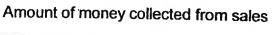
- In the square grid below, AB and BC are straight lines. 6.
 - Measure and write down the size of ∠ABC. (a)
 - Draw two more straight lines to complete a rhombus ABCD. (b) Label Point D.

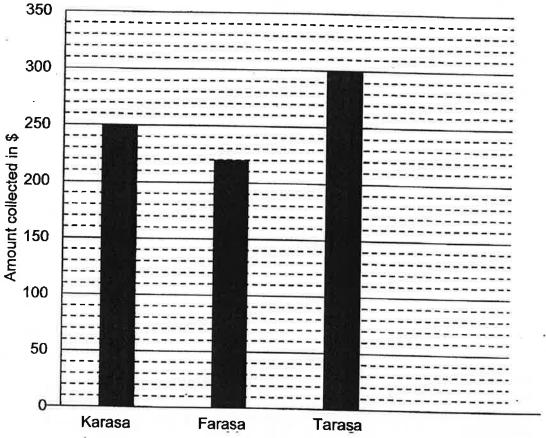


[2]

Ans: (a) [1] 7. The graph below shows the amount collected from the sale of 3 different types of pen in March.

Do not write in this space





Type of pen

- (a) What was the total amount collected from the sale of the 3 types of pen?
- (b) The cost of a Tarasa pen was 40 cents. How many Tarasa pens were sold in March?

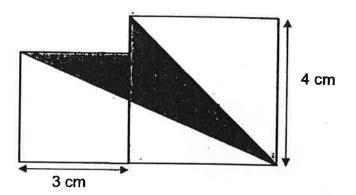
Ans: (a) ______[1

Ans: (b) ____ ° [2]

	1	4	2	0	3	1	4	· 2	0	3	1	4	2	0	3	1	4	2
(a) What is the 103 th number? (b) What is the sum of the first 52 numbers? Ans: (a)	st	2 nd	3rd						-		-							
(a) What is the 103 th number? (b) What is the sum of the first 52 numbers? Ans: (a)		₩														Ē		
Ans: (a)[1] Ans: (b)[2] Mrs Mok and Mrs Kang were given a certain number of days to sew the same number of cushion covers. Mrs Mok sewed an average of 24 cushion covers a day, and she took 5 days more. Mrs Kang sewed an average of 30 cushion covers a day, and she finished sewing her cushions 4 days earlier.			W	hat i	s the	103	3 th n	umb	er?									
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10. The figure is made up of 2 squares. Find the shaded area.

Do not write in this spac€

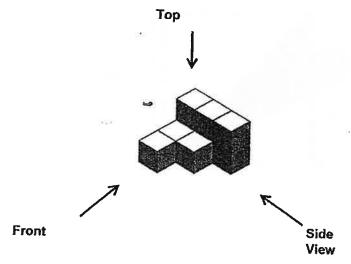


Ans:_____[3]

11. The diagram below shows a wooden solid.

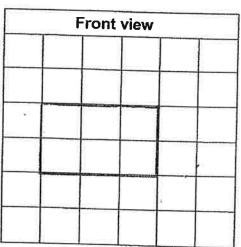
Draw the Front, Top and Side view of the solid in the grids provided.

Do not write in this space



8

	Top view								
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Side view								
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12.	cupc	and Lily baked a total of 1539 cupcakes. Tom sold thrice as many akes as Lily. In the end, the number of cupcakes Lily had left was 58 than what she had sold. Lily had twice as many cupcakes left as	Do not write in this space
	(a)	How many cupcakes did Tom bake at first?	
	(b)	How many cupcakes did Lily sell?	
		* HE	
		es established and the second	
		*	
		14.	
		Ans: (a)[2]	

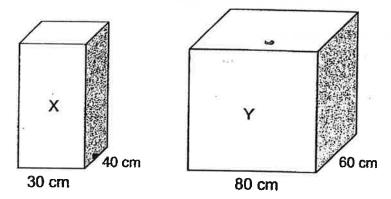
Ans: (b)_

[2]

 Janelle had 2 different rectangular tanks of the same height as shown below. She filled them up with water to the same height.

Do not write in this space

She filled tank Y with 100.8 litres more water than tank X.



What was the height of the water level in both tanks?

Ans: _______

14. In the figure below, ABDE is a square and BCD is an equilateral triangle. AF is parallel to BC.

Do not write in this space

- (a) Find ∠BAC.
- (b) Find ∠AFC

A E		В		
				N
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		-	1	<
		را'		

Ans: (a) _____ [2]

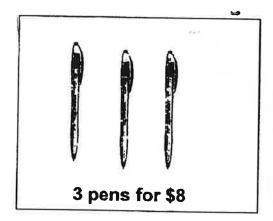
Ans: (b) ______[2]

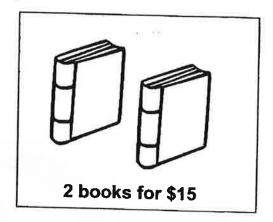
15.	a uis	bought a dress and a skirt at a discount from a store. She count of 25% for the dress. For the skirt, a discount was a saved a total of \$31.20.	e was given also given.	Do not write in this space
	She dress	paid a total of \$120.80 for the 2 items. She paid \$5.20 most than the skirt.	ore for the	
	(a)	What was the price of the dress without the discount?		
	(b)	What was the percentage discount given for the skirt?	₩	
				-
		**		
		5.		
				r)
		Ans: (a)	[2]	

Ans: (b)

Do not write in this space

- 16. The number of books sold was 4 more than the number of pens sold at a sale. Aaron collected \$1006 altogether.
 - (a) How many pens was sold?
 - (b) How much money was collected from the sale of his books?



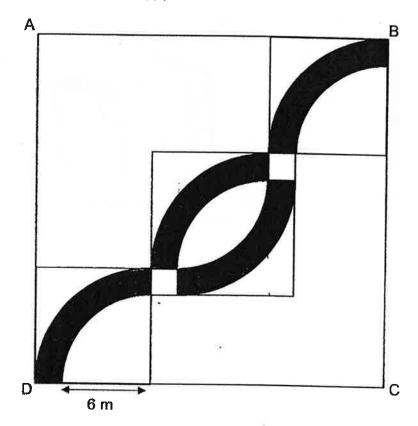


Ans: (a)	7.	[2]

17. A pattern is set into a big square ABCD shown below. The pattern is made up of identical quadrants of 2 different sizes. Two small squares of side 2 m are used to connect all the quadrants.

Do not write in this space

- (a) What is the perimeter of the big square ABCD?
- (b) Find the area of the unshaded parts. Take $\pi = 3.14$



Ans:	(a)	[2]

Ans:	(h)	roı
mija.	(v)	[3]

ANSWER KEY

16,8161 264g

YEAR

: 2019

LEVEL

: PRIMARY 6

SCHOOL: ROSYTH PRIMARY SCHOOL

SUBJECT : MATHEMATICS

TERM : SA1

SECTION A

Q8	07	Q6	Q5	Q4	Q3	Q2	Q1
QC.	4	2	3	4	2	2	4
1	Q15	Q14	Q13	Q12	Q11	Q10	Q9
	1	4	2	1	3	2	3

SECTION B

SEC	TION B	
Q16	61	
Q17	10	
Q18	360°-71°-38°-90°=161°	l A
Q19	$\frac{15}{25} = \frac{3}{5} = 60\%$	
Q20	25 5	
Q21	9 (Max factor of 36 and 45)	
Q22	15 apple discount $0.20¢ \rightarrow 15 \times 0.20¢ = 300¢$	
	6 more apples → 300¢	
	1 apple after discount → 300¢ ÷ 6 = 50¢	
	Original price \rightarrow 50¢ + 20¢ = 70¢ = \$0.70	
Q23	A:C → 5:2	- 16
	A:C → 15:6	
	M: W → 1:2	
	M:W → 5:10	
	M:W:C → 5:10:6	
	W: C → 10 : 6	E
	Ans → 5:3	* .
Q24	90° - 26° - 26° = 38°	*. ***
	180° – 38° – 90° = 52°	
Q25	a) False	
	b) False	
Q26	(a) 80L	
	(b) 2.50 p.m.	

Q27	$\frac{8\times 4}{3} - 8 + 1$ $= \frac{32}{3} - 8 + 1$ $= 10\frac{2}{3} - 7$	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Q28	$= 3\frac{\pi}{3}$ Height of PS and QR \rightarrow 16	1918,819 8,130 190 190 190 190 190 190 190 190 190 19
	Height → 16 ÷ 2 = 8	
	Length x Height = $13 \times 8 = 104 \text{cm}^2$	
Q29	0.233	
Q30	(a) week 3	
	(b) 12 + 14 + 8 + 17 + 15 = 66	
	66 ÷ 5 = \$13.20	

SECTION C

_	TION C
Q1	3kg = 3000g
	$3000 \times \frac{3}{8} = 1125g$
Q2	6.35p.m.
Q3	Diff at first → 84 – 57 = 27
	Diff at end \rightarrow 11u – 8u = 3u
	3u = 27
	$1u = 27 \div 3 = 9$
	9 x 11 = 99
Q4	5j + 4 – 1 ÷ 5
	$3(\frac{5j+3}{5})$
Q5	D distance → 20 x 3 = 60
	A distance \rightarrow 3 x 12 = 36
	Apart → 60 + 36 = 96km
Q6	a) 107°
	b)
	В
	A C
<u> </u>	() 272
Q7	(a) 250 + 220 + 300 = \$770
00	(b) 300 ÷ 0.4 = 750
Q8	(a) 2
	(b) 1set \rightarrow 5 number \rightarrow 1 + 4 + 2 + 3 = 10
	52 ÷ 5 = 10 R 2
	10 sets + first two digits \rightarrow 10 x 10 + 1 + 4 = 105

Q9	Diff in	days→	9 days
----	---------	-------	--------

Total different cushion in 9 days \rightarrow 24 x 9 = 216

Diff cushion is 1 days \rightarrow 30 - 24 = 6

K took \rightarrow 216 \div 6 = 36

Answer \rightarrow 36 + 4 = 40

 $(36 \times 30, 45 \times 24 = 1080 \text{ cushion in total})$

Q10 Total area of 2 square \rightarrow (4x4) + (3x3) = 25cm²

Triangle 1 $\Rightarrow \frac{1}{2} \times 4 \times 4 = 8 \text{cm}^2$

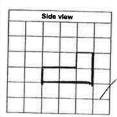
Triangle 2 $\rightarrow \frac{1}{2}$ x 3 x (3+4) = 10.5cm²

Shaded area \Rightarrow 25 - 8 - 10.5 = 6.5cm²



Q11

Top	/iew				Front	view	
H	F	I	,	_			
H		Z					/



Q12

Sold	T			
	L			

Left	T	29	
	L		58

 $11u \rightarrow 1539 - 29 - 58 = 1452$

1u → 1452 ÷ 11 = 132

 $7u \rightarrow 132 \times 7 = 924$

 $T \rightarrow 924 + 29 = 953 \text{ (Ans (a))}$

 $2u \rightarrow 132 \times 2 = 264 \text{ (Ans(b))}$

Q13 | 100.8L = 100800cm³

Base area of $X \rightarrow 30 \times 40 = 1200 \text{cm}$

Volume X \rightarrow 1200 x u = 1200u

Base area of Y \rightarrow 60 x 80 = 4800cm

Volume Y \rightarrow 4800 x u = 4800u

Diff in voulime → 4800 – 1200 = 3600u

3600u = 100800

Height \rightarrow u = 100800 \div 3600 = 28

Q14 <BCD = 60

$$<$$
BCF = 52

$$<$$
ABC = $60 + 90 = 150$

$$<$$
BAC = (180 − 150) \div 2 = 15 \leftarrow Answer (a)

$$<$$
AFC = 78 + 60 = 138 \leftarrow Answer (b)

Q15	Dress after discount \rightarrow (120.80 – 5.20) \div 2 + 5.2 = \$63	
(a)	Skirt after discount → (120.80 – 5.20) ÷ 2 = \$57.80	
(ω)	Answer (a) $\rightarrow 63 \times \frac{100}{75} = 84	
	Skirt before discount → 120.80 + 31.20 – 84.00 = \$68	**
	Discount given → 68 – 57.8 = \$10.20	
	Answer (b) $\rightarrow \frac{10.2}{68} = 0.15 = 15\%$	Delivery: 9857
	4 books → 15 x 2 = 30	Oell 985, -
	Equal number of B and P → 1006 – 30 = 976	
	6 P costs → 8 x 2 =\$16	98
	6 B costs → 15 x 3 = \$45	9,989
	1 set → 16 + 45 = \$61	57
Q16	Number of sets \rightarrow 976 \div 61 = 16	So Jato
	Answer (a) \rightarrow Pen bought \rightarrow 16 x 6 = 96	81612648
	Answer (b) → 16 sets → 16 x 45 +30 = 750	
Q17	Length of square \rightarrow 2 + 6 + 2 + 6 + 2 + 6 = 24	
(a)	Perimeter of square → 24 x 4 = 96 m	
(b)	Radius of large circle → 6 + 2 = 8m	
	Radius of small circle → 6m	
	Area of large quarter circle = $\frac{1}{4}$ x3.14 x 8 x 8 = 50.24m ²	
	Area of small quarter circle = $\frac{1}{4}$ x 3.14 x 6 x 6 = 28.26m ²	
	Diff area \rightarrow 50.24 – 28.26 = 21.98m ²	76° X
	Area of square → 24 x 24 = 576m ²	
1	Total unshaded \rightarrow 576 – (21.98 x 4) = 488.08i Cm	