Index				
No.				

PEI CHUN PUBLIC SCHOOL PRELIMINARY EXAMINATION, 2018

MATHEMATICS PAPER 1

(BOOKLET A)

Additional materials: Optical Answer Sheet (OAS) Total Time For Booklets A & B: 1 h

Name	:	()
Class	:	Primary 6 /

Date: 1 August 2018

INSTRUCTIONS TO CANDIDATES

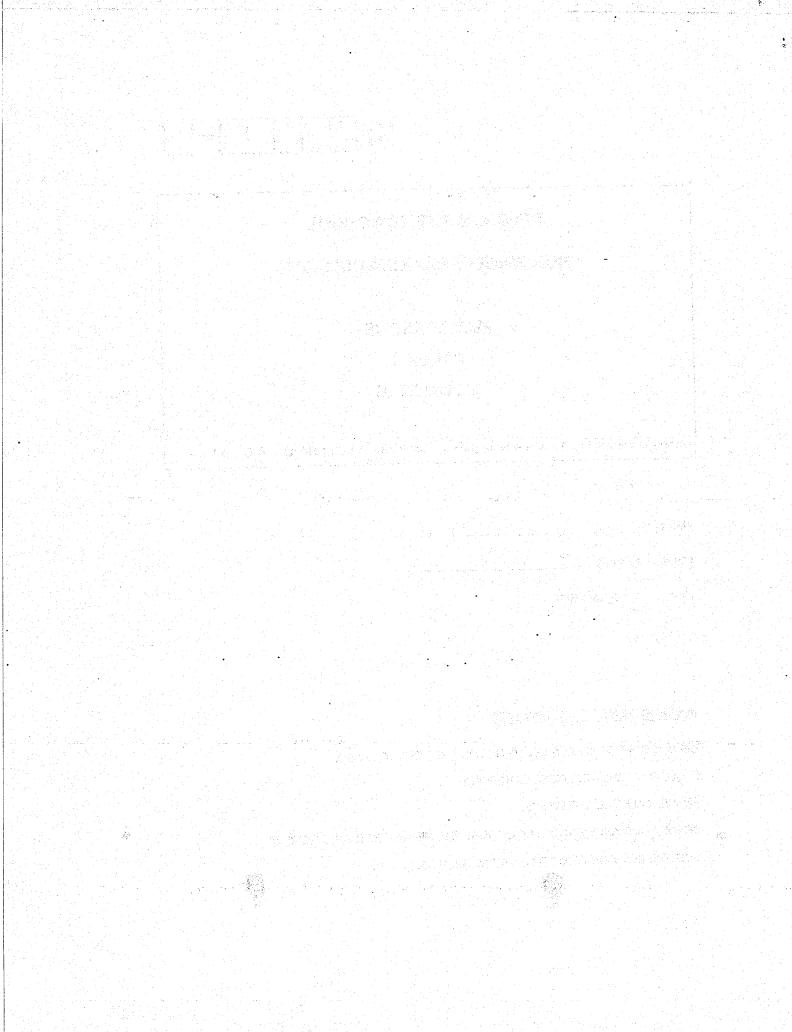
DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

ANSWER ALL THE QUESTIONS.

SHADE YOUR ANSWERS IN THE OPTICAL ANSWER SHEET (OAS) PROVIDED.

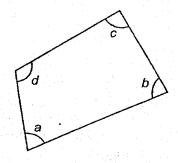
YOU ARE NOT ALLOWED TO USE A CALCULATOR.



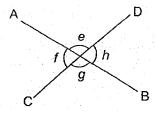
For Make	each o		options a	re given.	One	of them	is the correct (1, 2, 3 or 4)	
1.	Whice figure		ing is eight l	nundred and	d five ti	housand	and twenty-one in	
	(1)	85 021						
	• •	005 004						
	(2)	805 021					•	•
	(3)	850 021						
	(4)	8 005 021					tyrest est, francis T	

- 2. Round 299 542 to the nearest thousand.
 - (1) 290 000
 - (2) 299 500
 - (3) 300 000
 - (4) 300 542
- 3. What is the value of 500×80 ?
 - (1) 40
 - (2) 400
 - (3) 4000
 - (4) 40 000
- 4. Which of the following is the same as 9.04 t?
 - (1) 904 cm³
 - (2) 9004 cm³
 - (3) 9040 cm³
 - (4) 9400 cm³

- 5. Which of the following is the smallest?
 - (1) 0.6
 - (2) 0.31
 - (3) 0.079
 - (4) 0.102
- 6. Which of the marked angles in the figure below is greater than a right angle?



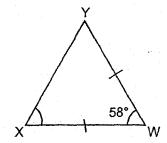
- (1) Za
- (2) ∠b
- (3) Zc
- (4) ∠d
- 7. In the figure below, AB and CD are straight lines.



Which of the following statements is true?

- (1) $\angle e = \angle g$
- (2) $\angle f = \angle e$
- $(3) \qquad \angle f + \angle h = 180^{\circ}$
 - (4) $\angle e + \angle g = 180^{\circ}$

8. The figure below shows an isosceles triangle WXY. ∠YWX = 58°.



Find \angle WXY.

- (1) 64°
- (2) 61°
- (3) 58°
- (4) 32°
- 9. Simplify the expression 9y + 7 5y + 3.
 - (1) 14y + 4
 - (2) 4y 10
 - (3) 4y + 4
 - (4) 4y + 10
- 10. Express 4.2 as a percentage.
 - (1) 4.2%
 - (2) 42%
 - (3) 420%
 - (4) 4200%

11. Which of the following is not a symmetric figure?

(1)



(2)



(3)

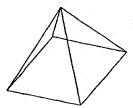


(4)



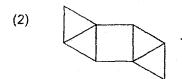
- 12. Suzy had some apples. $\frac{2}{5}$ of them were green and the rest were red. She sold all the green apples and $\frac{1}{4}$ of the red apples. What fraction of the apples were sold?
 - (1) $\frac{3}{20}$
 - (2) $\frac{11}{20}$
 - (3) $\frac{13}{20}$
 - (4) $\frac{14}{20}$

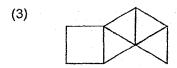
- 13. Mrs Yong wanted to pack 72 oranges and 96 apples into as many bags as possible with no remainder. She packed the same number of fruit in each bag. The number of apples in each bag was the same. How many oranges were there in each bag?
 - (1) 24
 - (2) 7
 - (3) 3
 - (4) 4
- 14. The figure below shows a pyramid.

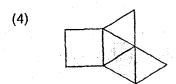


Which of the following is not a net of the pyramid?



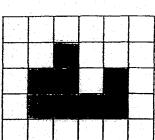




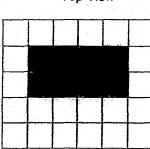


15. The diagrams below show three different views of a solid that is made up of 12 unit cubes.

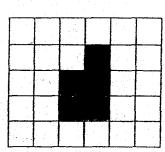
Front View



Top View

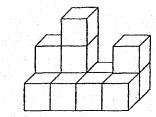


Side View

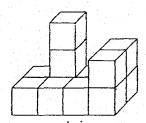


Which of the following solid matches the three views?

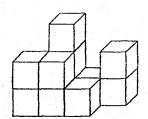
(1)



(2)



(3)



(4)

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)

Do not write in this space

16. What is the missing number in the box?

Answer:

17. Find the value of $35 - 2 \times (3 + 4) + 6$.

Answer:

18. Find the value of $\frac{3}{7} \div 9$.

Answer:

19. Find the value of $\frac{42-3y}{6} + 8$ when y = 4.

Answer:

20. Find the volume of the cube shown below.

Do not write in this spac



Answer: _____ cm³

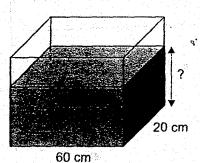
Questions 21 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

- 21. Find the value of
 - (a) 20.7×1000
 - (b) 8.06 ÷ 20

Answer: (a)

(b) _____

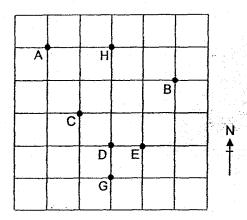
The base of a rectangular container is 60 cm long and 20 cm wide. Peter poured 36 000 cm³ of water into the container. What is the height of the water level?



Answer: _____cm

23. Seven landmarks are shown in the square grid below.

Do not writ



- (a) In which direction is A from E?
- (b) A treasure is buried under one of the landmarks. The treasure is south of H and south-west of B. Under which landmark is the treasure buried?

Answer: (a) ______

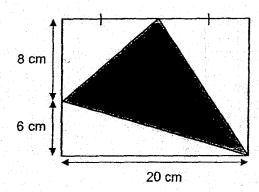
(b) _____

24. The ratio of the number of boys to the number of girls in a hall is 2 : 7. There are 180 children. Find the difference between the number of boys and the number of girls.

Answer: _____

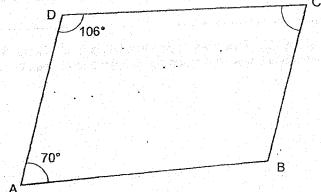
25. The figure below shows a rectangle and a triangle. What is the area of the shaded triangle?

Do not write in this space



Answer: _____ cm²

26. ABCD is a trapezium. $\angle DAB = 70^{\circ}$. $\angle ADC = 106^{\circ}$.



- (a) Name the pair of parallel sides of the trapezium.
- (b) Find ∠BCD.

Answer: (a)

(b) _____

27. A table with 4 columns is filled with numbers in a certain pattern. The first 4 rows of the table are shown below.

Do not wr in this spa

	Column A	Column B	Column C	Column D
Row 1	1	2	3	4
Row 2	8	7	6	5
Row 3	9	10	ii11	12.
Row 4	16	15	14	13
:		:	:	:

In which row and column will the number 295 appear?

Answer: Row: _____

28. One machine took 80 minutes while another took 100 minutes to print the same number of copies of a newsletter. In 80 minutes, the faster machine printed 360 more copies of the newsletter than the slower one. What was the total number of copies printed by the two machines?

Answer:

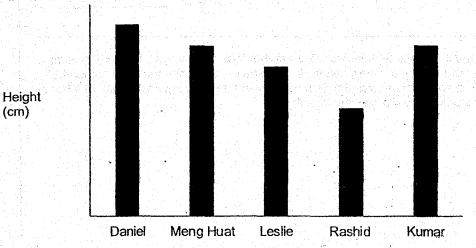
29. Siva saves \$3 a day during weekdays and \$6 a day on Saturday and Sunday.

He started saving on Friday, 8 June. How many days did he take to save \$69?

Do not write in this space

Answer:

30. The bar graph below shows the height of 5 boys.



Based on the information above, put a tick (✓) in the correct box.

		True	False	Not possible to tell
(a)	Leslie's height is less than Rashid's height.			
(b)	The average height of the 5 boys is more than Rashid's height but less than Daniel's height.			

End of Paper

Set by : Mrs Agnes Chua, Mr Tan Keng Hock and Mr Stanley Soh

MA / P6 / PL / 2018

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PEI CHUN PUBLIC SCHOOL PRELIMINARY EXAMINATION, 2018

MATHEMATICS PAPER 2

Time: 1 h 30 min

Name	:			(.)
Class	:	Primary 6 /			
Date	:	1 August 2018			
Parent	's	Signature:	-	· · · · · · · · · · · · · · · · · · ·	

Paper 1 (Booklet A)	20
Paper 1 (Booklet B)	25
Paper 2	55
TOTAL	100

INSTRUCTIONS TO CANDIDATES

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

ANSWER ALL QUESTIONS.

SHOW YOUR WORKING CLEARLY AS MARKS ARE AWARDED FOR CORRECT WORKING.

WRITE YOUR ANSWERS IN THIS BOOKLET.

YOU ARE ALLOWED TO USE A CALCULATOR.

in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks) Do n in thi There are 4032 people at a concert hall. $\frac{2}{7}$ of the people are females. 1. How many females are there in the concert hall? Answer: The average height of 4 boys is 1.36 m. The height of one of the boys is 1.45 m. What is the average height of the other 3 boys? Answer: **SCORE**

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(Go on to the next nane)

MA/P6/PL/2018

Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers

1 bookshelf was removed and the books on the shelf were placed on the	Do not in this sp
remaining 12 shelves. Because of this, the number of books on each remaining shelf increased by 8.	
What was the total number of books in the 13 bookshelves at first?	
	-
Answer:	
	ł
The breadth of a rectangle is h cm. The length of the rectangle is 3 times its	
The breadth of a rectangle is <i>b</i> cm. The length of the rectangle is 3 times its breadth. What is the perimeter of the rectangle?	
The breadth of a rectangle is b cm. The length of the rectangle is 3 times its breadth. What is the perimeter of the rectangle? Express your answer in terms of b .	
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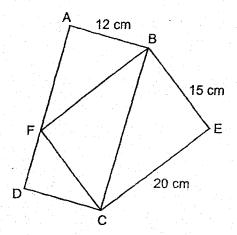
MA/P6/PL/2018

Page 2 of 13

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 In the figure below, ABCD and BECF are rectangles. The length of CE is 20 cm, the length of BE is 15 cm and the length of AB is 12 cm.
 What is the length of AD?

Do no in this



Answer: _____cm

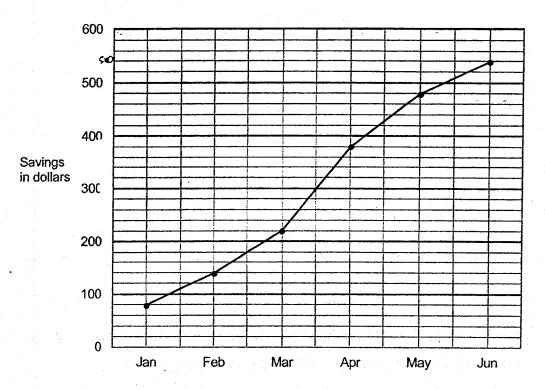
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41						
						}
			Answer:		[3]	
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	them	donat	ratio of ed \$68 2. Wh	0 to cl	harity	, the	ratio	of L	eon's	s sav	gs w ings	as 9 to M	: 7. icha	Afte el's s	r eac avin	h of gs	
	them	donat	ed \$68	0 to cl	harity	, the	ratio	of L	eon's	s sav	gs w ings	as 9 to M	: 7. icha	Afte el's s	r eac savin	h of gs	
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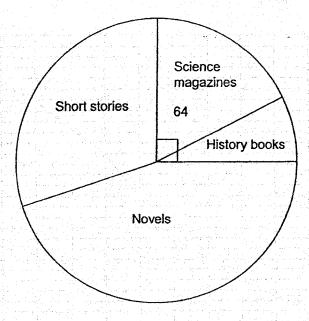


- (a) In which month did Kai Ling save the most? How much did she save that month?
- (b) At the end of June, Kai Ling realised she had not saved enough for the present. She only managed to save $\frac{3}{4}$ of the amount she needed. What was the amount she needed for the present?

Answer:	(a)	Month	:	·	[1]
			7.655		

11. There are 360 Primary 6 pupils in a primary school. The pie chart shows the type of books the Primary 6 pupils like to read. 64 pupils like to read Science magazines.

Do not in this s



- (a) What fraction of the pupils like to read short stories or novels?
- (b) What percentage of the pupils like to read Science magazines?
- (c) The ratio of the number of pupils who like to read short stories to the number of pupils who like to read novels is 2 : 3.

 What percentage of the pupils like to read novels?

Answer: (a) _____[1]

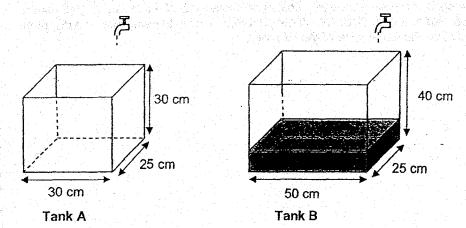
(b) ________[1

(c) _____[2]

12.	At a shop, a mobile phone was sold at 40% the price of a television. Both items were sold at a 20% discount. Janet paid \$2016 for both items after the discount.	Do not write in this space
1 1	What was the usual price of the television?	
		I .
		47
1		
	And the state of t	
	Anguare	
	Answer: [3]	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
		<u> </u>

13. Two rectangular tanks are shown below.

Do not write in this space



At first, Tank A was empty and $\frac{1}{4}$ of Tank B was filled with water. Both taps were turned on at the same time and water from both taps flowed at the same rate of 1.5 litres per minute.

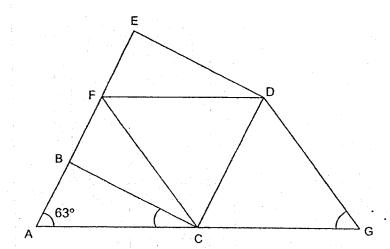
How long did it take for the height of water to be the same in both tanks? (1 litres = 1000 cm³)

	1,			51, 6, 70
				100
Ans				100
פנות			4.1	13

14. The figure below is not drawn to scale. ABFE and ACG are straight lines. BCDE is a square and CFDG is a rhombus. ∠BAC = 63°.

Do not wri in this spac

- (a) Find ∠ACB.
- (b) Find ∠CGD.



Answer: (a) ______[2]

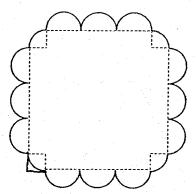
(b) _____[3

15. The figure shows a table mat. The outside edge of the mat is formed by 12 semicircles and 4 quarter circles, each of radius 10 cm.

Do not write in this space

- (a) Find the perimeter of the mat.
- (b) Find the area of the mat.

Take $\pi = 3.14$.



Answer:	(a)	 [2]
		 1

Do not write in this space

16.	Raja and Greg took part in a walkathon which started at 7.20 a.m. speed was 30 m/min faster than Greg. When Raja completed the	
	minutes, Greg had only walked $\frac{5}{6}$ of the distance.	

- (a) What time was it when Greg completed the walkathon?
- (b) Find Raja's average speed for the walkathon in m/min.

Answer:	(a)		[2]
		•	15,1	

17. Lee Peng and Janice had some red and yellow ribbons. $\frac{4}{9}$ of Lee Peng's ribbons were red, while $\frac{1}{3}$ of Janice's ribbons were red. Lee Peng gave $\frac{3}{4}$ of her red ribbons to Janice.

In the end, Lee Peng had 126 ribbons left and $\frac{6}{11}$ of Janice's ribbons were red.

Do not write in this space

- (a) How many red ribbons did Lee Peng give Janice?
- (b) How many ribbons did Janice have in the end?

Answer: (a) ______[2]

(b) _____[3]

End of Paper

ANSWER KEY

YEAR -

2018

LEVEL

PRIMARY 6

SCHOOL:

PEI CHUN PUBLIC

SUBJECT:

MATHEMATICS

TERM

PRELIMINARY EXAMINATION

Paper 1

Q1	2	Q4	3	• Q 7	1	Q10	3	Q13	3
Q2	3	Q5	3	Q8	l .	Q11	1	Q14	1
Q3	4	Qб	4	Q9	4	Q12	2	Q15	4

Q16 22

Q17 27

Q18 $\frac{1}{21}$

Q19 13

Q20 729 cm³

Q21 (a) 20700

(b) 0:403

Q22 30 cm

Q23 (a) North-west

(b) D

Q24 100

Q25 110 cm²

Q26 (a) DA and CB

(b) 74°

Q27 Row : <u>74</u> Column : <u>8</u>

Q28 3600

Q29 17 days

Q30 (a) False

(b) True

Paper 2

Q1
$$\frac{1}{7} \rightarrow 4032 \div 7 = 576$$

Females $\rightarrow 576 \times 2 \Rightarrow 1152$

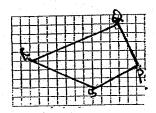
- Q2 Total \rightarrow 1.36 x 4 = 5.44 3 boys \rightarrow 5.44 - 1.45 = 3.99 Average \rightarrow 399 ÷ 3 \Rightarrow 1.33 m
- Q3 1 shelf \rightarrow 8 x 12 = 96 13 shelves \rightarrow 96 x 13 \Rightarrow 1248 books
- Q4 Length $\rightarrow b \times 3 = 3b$ Perimeter $\rightarrow 3b + 3b + b + b \Rightarrow 8b \text{ cm}$
- Q5 Area \rightarrow 20 x 15 = 300 300 ÷ 2 = 150 150 x 2 = 300 AD \rightarrow 300 ÷ 12 \Rightarrow 25 cm
- Q6 $2 + M \rightarrow 193$ $S + M \rightarrow 100$ $1 \text{ unit } \rightarrow 93 \div 3 = 31$ $100 - 31 \Rightarrow \underline{\$69}$

Q7
$$8.72 + 0.64 = 9.36$$

 $9.36 \div 4 = 2.34$
 $2.34 \times 2 \Rightarrow 4.68 \text{ kg}$

Q8 (a) 8.6 cm

(b)



$$1u = 680 \div 17 = 40$$

$$M \rightarrow 40 \times 21 \Rightarrow \underline{\$840}$$

Q10 (a) Feb
$$\rightarrow$$
 140 - 80 = 60

$$Mar \rightarrow 220 - 140 = 80$$

$$Apr \rightarrow 380 - 220 \Rightarrow \$160$$

(b) Total
$$\rightarrow$$
 60 + 80 + 160 + 100 + 60 = 460

$$\frac{3}{4} \rightarrow 460 + 80 = 540$$

$$\frac{1}{4} \rightarrow 540 \div 3 = 180$$

$$\frac{4}{4} \rightarrow 180 \text{ x } 4 \Rightarrow \underline{\$720}$$

Q11 (a)
$$1-\frac{1}{4} \Rightarrow \frac{3}{4}$$

(b)
$$\frac{64}{360} \times 100 \Rightarrow 17\frac{7}{9} \%$$

(c)
$$360 - 90 = 270$$

 $270 \div 5 = 54$
 $54 \times 3 = 162$

$$\frac{162}{360} \times 100 \Rightarrow \underline{45\%}$$

Q12
$$80\% \rightarrow 2016$$

 $100\% \rightarrow 2016 \div 80 \times 100 = 2520$
 $140\% \rightarrow 2520$
 $100\% \rightarrow 2520 \div 140 \times 100 \Rightarrow 1800

Q13
$$\frac{\text{Tank A}}{\text{Height} \to 1500 \div (30 \text{ x } 25) = 2 \text{ cm}}$$
 $\frac{\text{Tank B}}{\text{Height} \to 1500 \div (50 \text{ x } 25) = 1.2 \text{ cm}}$ $\frac{\text{Tank B}}{\text{Height} \to 1500 \div (50 \text{ x } 25) = 1.2 \text{ cm}}$

Q14 (a)
$$\angle ABC = 180^{\circ} - 90^{\circ} = 90^{\circ}$$

 $\angle ACB = 180^{\circ} - 90^{\circ} - 63^{\circ} \Rightarrow 27^{\circ}$

(b)
$$\angle DCG = 180^{\circ} - 90^{\circ} - 27^{\circ} = 63^{\circ}$$

 $\angle CGD = 180^{\circ} - 63^{\circ} - 63^{\circ} \Rightarrow 54^{\circ}$

Q15 (a)
$$D \rightarrow 10 \times 2 = 20$$

Semi
$$\rightarrow \frac{1}{2}$$
 x 3.14 x 20 = 31.4

$$12 \text{ semi} \rightarrow 31.4 \times 12 = 376.8$$

Quar
$$\rightarrow \frac{1}{4} \times 3.14 \times 20 = 15.7$$

$$4 \text{ quar} \rightarrow 15.7 \text{ x } 4 = 62.8$$

Perimeter
$$\rightarrow$$
 62.8 + 376.8 \Rightarrow 439.6 cm

(b) 2 small rectangles
$$\rightarrow$$
 60 x 10 x 2 = 1200
80 x 60 = 4800
31.4 x 10 x 10 x 7 = 2198
Total \rightarrow 2198 + 1200 + 4800 \Rightarrow 8198 cm²

- Q16 (a) 8:08 and
 - (b) $150 + 30 \Rightarrow 180 \text{ m/min}$
- Q17 (a) $6u \rightarrow 126$ $1u \rightarrow 126 \div 6 = 21$ $21 \times 3 \Rightarrow \underline{63 \text{ red ribbons}}$
 - (b) <u>J Before</u> <u>J After</u> R: Y 1: 2 12: 10

5:10

7u = 63

 $22u = 63 \div 7 \times 22 \Rightarrow \underline{198 \text{ ribbons}}$

