

PEI CHUN PUBLIC SCHOOL SEMESTRAL ASSESSMENT 2, 2017

MATHEMATICS PRIMARY 5

PAPER 1 (BOOKLET A)

Additional materials: Optical Answer Sheet (OAS)

Total Time For Booklets A & B: 1 h

Name	:	()
Class	: Primary 5		
Date	: 27 October 2017		
Waths	Teacher:		

INSTRUCTIONS TO CANDIDATES

DO NOT TURN OVER THIS PAGE 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.

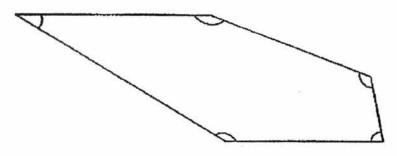
		hoice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 ver Sheet.	3 or 4) on the (20 marks)
	In 6 2	34 105, which digit is in the hundred thousands p	lace?
		ee5 °	. 45 - 5
	(1)	1	of th
	(2)	2	
	(3)	3	
	(4)	4	
•	Roun	d 809 653 to the nearest thousand.	
	(1)	800 000	
	(2)	809 600	in the second se
	(3)	809 700	* * * * * * *
	(4)	810 000	
i.	Whic	h of the following has 6 as a factor?	
	(1)	18	
	(2)	16	
	(3)	3	
	(4)	4	
1.	2 ten	ths + 8 hundredths + 6 thousandths = 7	
	Wha	t is the missing number in the box?	
	\$:	· 1	
	(1)	0.286	
	(2)	2.086	
	(3)	2.806	
	(4)	28.6	

- Express 13 + 5 as a mixed number in its simplest form.
 - (1) $\frac{13}{5}$
 - (2) $1\frac{3}{5}$
 - (3) $2\frac{3}{5}$
 - (4) $3\frac{2}{5}$
- 6. Express $6\frac{1}{20}$ as a decimal.
 - (1) 6.1
 - (2) 6.12
 - (3) 6.05
 - (4) 6.5
- 7. Express $\frac{1}{4}$ hour in minutes.
 - (1) 4 min
 - (2) 15 min
 - (3) 25 min
 - (4) 40 min
- 8. 4:5= ?

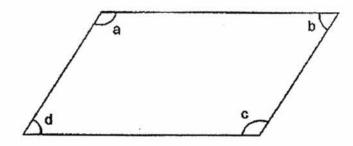
What is the missing ratio in the box?

- (1) 8:10
- (2) 8:15
- (3) 12:10
- (4) 24:25

- 9. Express $\frac{3}{5}$ as a percentage.
 - (1) 3%
 - (2) 6%
 - (3) 30 %
 - (4) 60 %
- 10. Five angles are marked in the figure below. How many of them are obtuse angles?



- (1) 5
- (2) 2
- (3) 3
- (4) 4
- 11. The figure below shows a parallelogram.

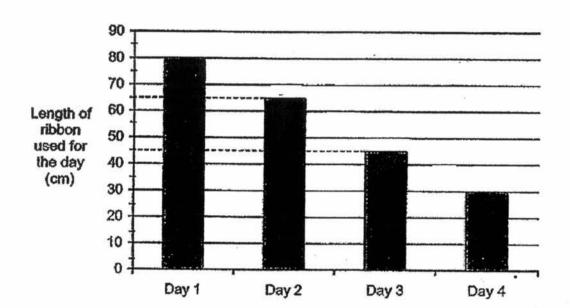


Which statement about the parallelogram is true?

- (1) $\angle a = \angle d$
- (2) ∠a = ∠b
- (3) ∠c + ∠d = 180°
- (4) $\angle b + \angle d = 180^{\circ}$

- 12. Latif had twice as many marbles as Mohan. After Latif bought another 45 marbles, he had 5 times as many marbles as Mohan. How many marbles did Latif have at first?
 - (1) 9
 - (2) 15
 - (3) 18
 - (4) 30
- 13. Brian spent $\frac{5}{8}$ of his money on a book and $\frac{1}{6}$ of the remainder on a pen. What fraction of his money had he left?
 - (1) $\frac{1}{18}$
 - (2) $\frac{5}{16}$
 - (3) $\frac{11}{24}$
 - (4) $\frac{5}{48}$

14. Laura had a roll of ribbon. She used some of it for 4 days. At the end of each day, she measured and recorded the length of the ribbon she used for the day. The bar graph below shows her records.



Given that the length of the ribbon left at the end of Day 4 was 200 cm, what was the length of the ribbon Laura had at first?

- (1) 420 cm
- (2) 390 cm
- (3) 230 cm
- (4) 220 cm
- 15. Alsha had some beads at first. She put all the beads equally into 3 boxes. After using 75 beads to make a bracelet and giving one box of beads to her sister, Alsha had 315 beads left. How many beads did Alsha have at first?
 - (1) 390
 - (2) 585
 - (3) 720
 - (4) 780



PEI CHUN PUBLIC SCHOOL SEMESTRAL ASSESSMENT 2, 2017

MATHEMATICS PRIMARY 5

PAPER 1 (BOOKLET B)

Total Time For Booklets A & B: 1 h

Name		()
Class	: Primary 5		
Date	: 27 October 2017		
Maths '	Teacher:		

INSTRUCTIONS TO CANDIDATES

DO NOT TURN OVER THIS PAGE 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. YOU ARE NOT ALLOWED TO USE A CALCULATOR.

What is the value of 40 ÷ 2000? Ex	xpress your answer as a decimal.
	gram w
	a a
	Answer:
Find the value of 48 - (15 +9) + 6.	
*	w
ž _y w	
	Answer:
Find the value of $\frac{5}{12} - \frac{1}{8}$ Give yo	our answer in the simplest form.
	Answer :

MA / P5 / SA2 / 2017

Page 1 of 7

(Go on to the next page)

19. Fir	nd the value o	f 8.24 × 7.	*		Do not write in this spec
					in this spac
			site.	2 M 1	
					Anna and Ann
					COLUMN TO THE PARTY OF THE PART
			Answer:_	- trans	
20. Ana	ange the follow	ving from the greatest i	o the smallest.		
	6.04 ,	6.041 , 6.401 ,	6.4		
		Suga			
				*	
		Answei':	· — — — — — — — — — — — — — — — — — — —		
	£:	~			
				. SCORE	
MA / P5 / SA2	/ 2017	Page 2 of 7	,	(Go on to the next page)	Mineral Carlo

(Go on to the next page)

answ	stions 21 to 30 carry 2 marks each. Show your working clearly and write your ers in the spaces provided. For questions which require units, give your answers in mits stated. (20 marks)	Do not write in this space
21.	The figure below is made up of 3 identical squares. The perimeter of the whole figure is 116 cm.	
	and the second s	
	A The state of the	
	Find the length of AB.	
		ω.
		100 1000 ass 100

	Answer :cm	
22.	There are some apples in a crate. The ratio of the number of red apples to the number of green apples is 6:7. There are 84 green apples. How many red apples are there?	
	·	
	크레 ⁸	
	Answer:	
	SCORE	

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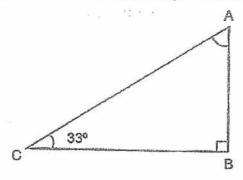
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23. A machine produces 320 toys in 5 minutes. At this rate, how many such toys can the machine produce in 22 minutes?

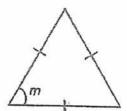
Do not white In this space

Answer:

24. (a) In triangle ABC, ∠ABC is a right angle and ∠ACB = 33°. Find ∠CAB.



(b) The triangle below is an equilateral triangle. Find ∠m.



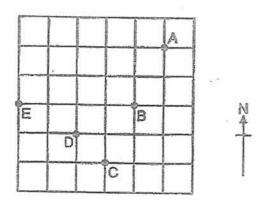
Answer: (a)

(b) _____

25.	Using the given line HF below, draw a triangle GHF such that GH is 4 cm and ∠GHF is 50°.	Do not write in
	a e	
	24.1	
	H	
		ı
26.	Colin put \$2800 in a savings account that earned 2% interest per year. How much money did Colin have in his savings account at the end of 1 year?	¥
	How much money did Colin have in his savings account at the end of 1 year?	
	* *	
	500	
	Answer: \$	
-		
	SCORE	
	·	
MA/F	P5 / SA2 / 2017 Page 5 of 7 (Go on to the next page)	

27.	Refer to the square	grid below and	fill in the	blanks wi	ith A. B.	Č.	Da	- 12
			4242 623 6446	22,4000,4865, 000	1610 11 19 2013	wa	Ph. 194	Beigh

Do not will in this epace



(a)	Point		is	west of	polnt
-----	-------	--	----	---------	-------

(b	Point	is north-east of point
500	0 01112	is not areast of point

28. The table below shows the programme guide for a children TV channel.

Time	Programme
10 30	Power Rangers (cartoon)
11 15	Sea Creatures (documentary)
12 40	Superheroes (movie)
14 35	Pokemon (cartoon)

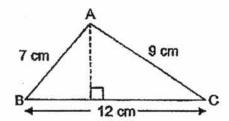
- (a) Randy switched on the TV to watch the children channel at 2 p.m. What programme was being shown then?
- (b) How long was the documentary, Sea Creatures? Give your answer in h and min.

Answer: (a) ______

(b) ____ h ___ min

Answer	: \$	

30. Look at triangle ABC below.



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

31	•	True	False	Not possible to tell
(a)	The area of triangle ABC is 54 cm ² .			
(b)	When the height and base of the triangle ABC is doubled, the area of the new triangle is also doubled.			

End	of	Pap	er
-----	----	-----	----

PEI CHUN PUBLIC SCHOOL SEMESTRAL ASSESSMENT 2, 2017

MATHEMATICS PRIMARY 5

PAPER 2

Time: 1 h 30 mln

Name :	()
Class : Primary 5	P (B
Date : 27 October 2017	P (B
Maths Teacher:	P
Parent's Signature:	7

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

INSTRUCTIONS TO CANDIDATES

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ANSWER ALL QUESTIONS.

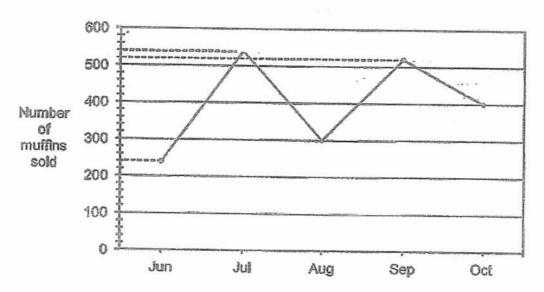
SHOW YOUR WORKING CLEARLY AS MARKS ARE AWARDED FOR CORRECT WORKING.

YOU ARE ALLOWED TO USE A CALCULATOR.

	190		9
•		He gave away $\frac{2}{5}$ of the balloon	s. How many balloons had
	All left?	A	e and a second
		y s	
		Answer:	
-			
		a a	
		B 34	
		Answer: _	kg
			kg
	P5 / \$A2 / 2017	Answer: _	

 The line graph below shows the number of muffins sold each month by a bakery from June to October.

Do not wate In this space



What was the total number of muffins sold by the bakery from June to October?

Answer:

4. Rosa has 4 times as much money as Ben. They have \$180 altogether. How much does Rosa have to give to Ben so that both of them have the same amount of money?

Answer: \$

									*	
5.	1 kg of gra	pes cost \$	10.80 an	d 1 l	kg.of che	erries c	ost twice a	is much. 'N	rs Sim	Do not write
	bought $2\frac{3}{4}$	kg of gra	pes and 1	5	kg of che	erries.	How much	n dld Mrs S	im spend	in this space
	altogether	7 .		•				8		
							r/*	process in		
							ii.			
							(2)			
							\$\$\frac{1}{2}			
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MA / P5 / SA2 / 2017

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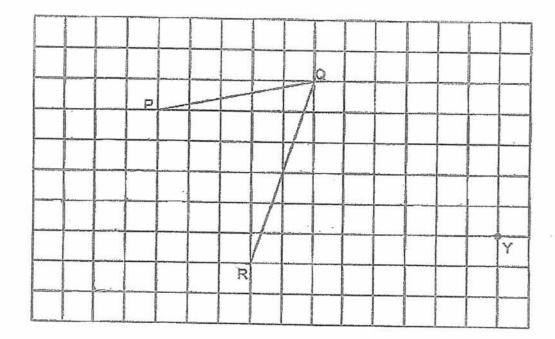
For questions 6 to 17, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [] at the end of each question or part-question.

(45 marks)

Do not wite in this space

In the square grid, two sides of a parallelogram PQRS have been drawn.

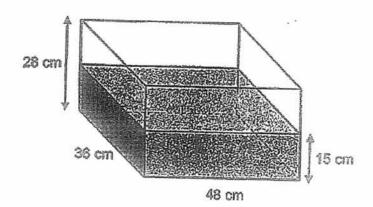
- (a) Complete the drawing of the parallelogram PQRS. [2]
- (b) Draw a perpendicular line from point Y to QR. [1]



	in Jar boys.	wary, 60% of a reading club of 125 members were girls and the rest were in May, 20 more girls joined the club.	Do not write in this space
	(a)	In January, how many of the members were girls?	
	(b)	What percentage of the members in May were girls? Round your answer to the nearest percent.	
		g.	
			· s
		a a	
		360	
		Ans: (a)[1]	
		(b)[2]	
		SCORE	
44 .	P5 / SA2	/ 2017 Page 5 of 15 (Go on to the next page)	

8. A rectangular tank measuring 48 cm by 36 cm by 28 cm contained water to a depth of 15 cm. Another 6 £ 800 ml of water was poured into the container. How much more water was needed to fill the tank to the brim? Give your answer in litres and millities.

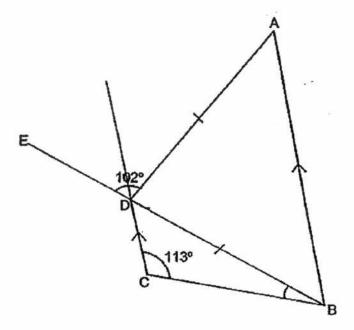
Do not write in this space



Answer: ______ f3

ABCD is a trapezium. BDE is a straight line and DA = DB. ∠ADE = 102° and ∠BCD = 113°.

Do not write in this space



- (a) Find ∠BAD.
- (b) Find ∠CBD.

Ans: (a) _____[2]

(b) _____[2]

SCORE

MA / P5 / SA2 / 2017

44\$ V 4

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(Go on to the next page)

 The table below shows the number of television sets a shop sold from Monday to Friday. The data for Wednesday and Friday had not been recorded. Do not write in this space

Day	Mon	Tue	Wed	Thu	Fri
Number of television sets sold	24	35		21	

The average number of television sets sold by the shop over the 5 days was 28. The shop sold twice as many television sets on Friday as on Wednesday. How many television sets did the shop sell on Wednesday?

Answer :[3]	
SCORE	
	1

11. The table below shows the rates of charges for water usage.

Volume of water used	Charge
First 40 m ³	\$1.15 per m ³
Additional amount above 40 m ³	\$1.45 per m ³

- (a) The Tan family used 46 m³ of water in January. How much did the Tan family pay for the water used in January?
- (b) The Koh family paid \$73.55 for the water used in February. How much water did the Koh family use in February?

Ans;	(a)	[2]
	(b)	[2]

SCORE

Do not write in this space

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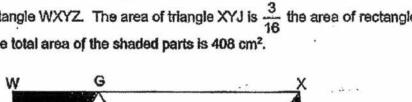
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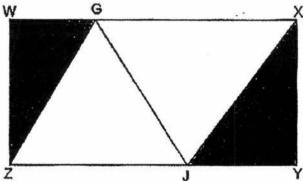
12.	2.8 l paci	kg of sugar is mixed wit ked into packets of 35 g	h 4,65 kg of cor each.	coa pov	vder. '	The mixture is	then	Do not write in this space
	(a)	How many 35-g pack	els are there?					AND THE PROPERTY OF THE PROPER
	(b)	How many grams of t	he mixture are l	left ove	r?			article and a supplemental and a
						<u>2</u> 2887/8€		
								The state of the s
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		÷.						
			²⁷ sa 350				Str. n	
							Open Control of Contro	
				3				
		*						
				Ans:	(a) _		[2]	
					(b)		(1)	
					•			and the farment of
							SCORE	
MA / P5	1\$A21	2017-	Page 10 of 15			(Go on to the	next page)	College dense manners L

13. Mrs J for \$1 She s	alil sold doughnuts in boxe 14 each. She sold an equa cold 152 cupcakes.	s of 10 for \$17 each I number of boxes o	and cupcake f doughnuts a	s in boxes of 8 nd cupcakes,	Do not write in this space
(a)	How many doughnuts did I	Mrs Jaill sell?	*		
(b)	What was the total amount the doughnuts and cupcak	of money that Mrs.	Jalii collected	from selling	
		1901			
		9 .	*		
			3	90	
					he je
	+			tec	
					8
		Ans:	(a)	[2]	
			(b)	(2)	
				SCORE	
MA / P5 / SA2	/2017	Page 11 of 15	(Go	on to the next page)	ime es Siren Servi

14.	At first, Leon had \$225 and shared the cost eq the amount of money N	and Mike had \$297. ' ually. The ratio of the fike had left became t	They bought a amount of more in the second of the second o	glft for their friend ney Leon had left to h did the gift cost?	Do not write in this space
	æ.				
			•		
	•		9.77	\$ 150 h	and the second
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		Ans	wer :	[4]	
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	¢			SCORE	17.0
MA/P5/	SA2/2017	Page 12 of 15		in an in the new road)	

In the figure below, WXYZ is a rectangle. The area of triangle WGZ is $\frac{1}{6}$ the 15. area of rectangle WXYZ. The area of triangle XYJ is $\frac{3}{16}$ the area of rectangle WXYZ. The total area of the shaded parts is 408 cm².





- What is the area of rectangle WXYZ? (a)
- What is the area of triangle GJX? (b)

Answer : (a)	[3]
(b)	[2]

SCORE

Do not write in this space

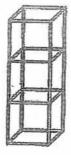
 Identical rods are used to form some structures. The first three structures are shown below.







Structure 2



Structure 3

The table below shows the number of rods used for each structure.

Structure Number	Number of cubes	Number of rods used	
1	1	12	
2	2	20	
3	3	28	

- (a) How many rods are needed to form structure 24?
- (b) Find the number of cubes that can be formed with 428 rods.

[[2
	-

17.	Ken spent $\frac{1}{4}$ of his money on 15 calculators and 31 pens. The cost of a calculator was 3 times the cost of a pen. He bought some more calculativith $\frac{3}{4}$ of his remaining money. How many calculators did Ken buy altog	ors	Do not write in this space
	o sales e		
	e variable de la companya della companya della companya de la companya della comp		
		:	
	ж •		
	24.4		
	· ·		
	Answer:	[5]	
Set by	End of Paper : Mrs Tan Kwal Sin, Mrs Soh Bee Lian and Mr Stanley Soh		
		SCORE	

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SCHOOL : PEI CHUN PUBLIC SCHOOL

LEVEL

PRIMARY 5

SUBJECT :

MATH

TERM :

2017 SA2

CONTACT:

PAPER 1 BOOKLET A

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8 =	Q9	Q10
2	4	1	1	3	3	2	1	4	3

Q 11	Q12	Q13	Q14	Q15
3	4	2	1	. 2

PAPER 1 BOOKLET B

Q16) 0.02

Q17) 44

Q18) 7 ÷ 24

Q19) 57.68

Q20) 6.401, 6.4, 6.041, 6.04

Q21) 1 slide > 116 ÷ 8 = 14.5

 $3 \text{ slides} \rightarrow 14.5 \times 3 = 43.5$

Q22) R : G

6:7

72:84

Q23) 5 Minutes → 320

1 minute \Rightarrow 320 ÷ 5 = 64

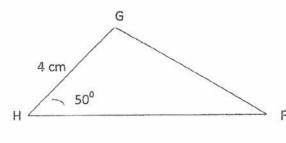
22 minutes -> 64 x 22 = 1408

Q24)

(a) Angle CAB→180 - 90 - 33 = 57

(b) angle M \rightarrow 180 ÷ 3 = 60

Q25)



```
Q26) 100% → 2800
        1\% \rightarrow 800 \div 100 = 28
        2\% \rightarrow 28 \times 2 = 56
       Amount of money \rightarrow 2800 + 56 = 2856
Q27)
            (a) E, B
            (b) A, D
            (a) Superheroes(movie)
(b) 1h 25min
Q28)
            (a) 2 units = 400 - 280
Q29)
                         = 120
                1 unit = 120 ÷ 2
                       = 60
                3 \text{ units} = 60 \times 3
                       = 180
Q30)
            (a) False
            (b) False
```

PAPER 2

Q1)	1 unit→ 120 ÷ 5 = 24
	3 units→ 24 x 3 = <u>72</u>
Q2)	380 bottles→ 380 x 60 = 22800g = 22.8kg
Q3)	Total →240 + 540 + 300 + 520 + 400 = 2000
Q4)	1unit→ 180 ÷ 5 = 36
	½ unit→ 36 ÷ 2 = 18
	Rosa gave→ 36 + 18 = <u>54</u>
Q5)	1kg of cherries → \$10.80 x 2 = \$21.60
	1/4 kg of grapes→ \$10.80 ÷ 4 = \$2.70
	2.75kg of grapes→ (\$10.80 x 2) + (\$2.70 x 3) = \$29.70
	0.2kg of cherries→ \$21.60÷ 5 = \$4.32
	1.4kg of cherries→ \$21.60 + (\$4.32 x 2) = \$30.24
	Total→ \$30.24 + \$29.70 = \$59.94
	Name of the state
Q6)	
Q7)	(a) 1% →125 ÷ 100 = 1.25
	60% →1.25 x 60 = <u>75</u>
	(b) $40\% \rightarrow 1.25 \times 40 = 50$
	Total in May→ 125 + 20 = 145
	1% →145 ÷ 100 = 1.45
	Girls in May →75 + 20 = 95
	Percentage of girls → 95 ÷ 145 = 65.5 ≈ 66%

3 8 x 8 **

```
Q8)
        Water needed to fill the tank \rightarrow 48 x 36 x (28 - 15) = 22464
        Volume of water needed → 22464 - 6800 = 15664 = 15 litre 64ml
        (a) Angle ADB \rightarrow 180^{\circ} - 102^{\circ} = 78^{\circ}
Q9)
              Angle BAD \rightarrow (180° - 78°) ÷ 2 = 51°
              Angle CDB \Rightarrow 180° - 51° - 78° = 51°
        (b) Angle CBD \rightarrow 180^{\circ} - 51^{\circ} - 113^{\circ} = 16^{\circ}
Q10) Total \rightarrow 28 x 5 = 140
        Total(mon+tues+wed) \Rightarrow 24 + 35 + 21 = 80
        Wed+fri\rightarrow 140 - 80 = 60
        1 unit \rightarrow 60 ÷ 3 = 20
            (a) First 40\text{m}^3 \rightarrow 1.15 \times 40 = 46
Q11)
                 Extra 6m^3 \rightarrow 1.45 \times 6 = 8.70
              Total paid \rightarrow 46 + 8.70 = 54.70
            (b) First 40\text{m}^3 \rightarrow 73.55 - 46 = 27.55
                 Extra m<sup>3</sup> \rightarrow 27.55 ÷ 1.45 = 19
                 Total \rightarrow 19 + 40 = 59 (Ans: 59 m<sup>3</sup>)
             (a) 2.8 + 4.65 = 7.45 = 7450g
Q12)
                 7450 \div 35 = 212 R 30 (Ans: 212)
             (b) 30g
             (a) No.of boxes → 152 ÷ 8 = 19
Q13)
                 No. of donuts \rightarrow 19 x 10 = 190
             (b) Total \rightarrow (17 x 7) + (19 x 14) = 323 + 266 = 589
 Q14) Difference -> 297 - 155 = 72
         L: M: D
         5:9:4
         90: 162: 72
         Amt each pay \Rightarrow 225 - 90 = 135
         Gift > 135 x 2 = 270 (Ans: $270)
 Q15) (a) 3/16 = 18/96
              1/6 = 16/96
              18/96 + 16/96 = 17/48
              1/48 \rightarrow 408 \div 17 = 24
              Area of rect WXYZ → 24 cm x 48 cm = 1152 cm<sup>2</sup>
          (b) area (half rect) → 48 ÷ 2 = 24
```

24 - 8 = 16Area of GJX \rightarrow 16cm x 24 cm = 384 cm²

- Q16) (a) No.of rods \rightarrow 12 + (12 x 8) = <u>196</u>
 - (b) 52 + 1 = 53
- Q17) ¼ of money→ 15 calculators 31 pens

 $\frac{1}{4}$ of money \rightarrow (15 x 3) + 31 = 76

Fraction \rightarrow $\frac{3}{4}$ x (1 - $\frac{1}{4}$) = $\frac{3}{4}$ x $\frac{3}{4}$ = $\frac{9}{16}$

 $9/16 \rightarrow 76/4 \times 9 = 171$

 $171 \div 3 = 57$

57 + 45 = 72