

# SECOND SEMESTRAL EXAMINATION 2017

# PRIMARY 5 MATHEMATICS PAPER 1

**DURATION: 1 HOUR** 

Booklet A	/ 20
Booklet B	/ 25

Paper 1 Total: / 45

Name:	<b></b>	_ (	)	.,	•.	
Class: Primary 5 (	)					
Date:						
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Parent's Signature:						
DO NOT OPEN THIS B	CTIONS			RETO	OLD TO	DO SO.

YOU ARE NOT ALLOWED TO USE A CALCULATOR.

#### PAPER 1 (BOOKLET A)

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.

(20 marks)

1 Arrange the following fractions from the largest to the smallest.

$$\frac{2}{5}$$
,  $\frac{1}{3}$ ,  $\frac{2}{9}$ ,  $\frac{3}{8}$ 

(1)  $\frac{1}{3}$ ,  $\frac{2}{5}$ ,  $\frac{3}{8}$ ,  $\frac{2}{9}$ 

(2) 
$$\frac{2}{5}$$
,  $\frac{1}{3}$ ,  $\frac{2}{9}$ ,  $\frac{3}{8}$ 

(3) 
$$\frac{2}{5}$$
  $\frac{3}{8}$   $\frac{1}{3}$   $\frac{2}{9}$ 

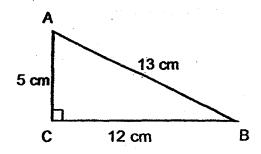
(4) 
$$\frac{2}{9}$$
,  $\frac{3}{8}$ ,  $\frac{2}{5}$ ,  $\frac{1}{3}$ 

- 2 What is the value of  $126.5 \div 100 \times 10$ ?
  - (1) 1265
  - (2) 126.5
  - (3) 12.65
  - (4) 1.265

3			He spent \$4 end on the sh		t. What	t percenta	ge of his
	(1)	20%					
gar in the	(2)	40%				•	
	(3)	60%					4
	(4)	80%					
						. 1	व
4	Whic	h one of the	following is a	ın equivalent	ratio to 6	5 : 24?	
	(1)	4:1				•	
	(2)	1:4					
	(3)	5:1					· · · · · · · · · · · · · · · · · · ·
	(4)	1:5					12.1 12.1
	•						
5			ng shared a p in the packel				
	(1)	20	1	nga kasan sebelah		e se <mark>v</mark> en	
	(2)	32		•			
	(3)	60					
	(4)	100				i ma	**************************************

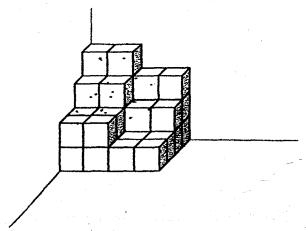
were	women. What wa	as the ratio of			
(1)	4:6:5				
(2)	4:10:5				
(3)	6:4:5				
(4)	6:10:5				
			• ,		•
		•	_		
		•	_		<del>-</del>
(1)	12				
(2)	24				
(3)	27				
(4)	54				
					3 boys is
(1)	17.5 kg		•		
	35 kg			•	
(3)	52.5 kg				
	(1) (2) (3) (4)  In a at \$2  (1) (2) (3) (4)  The 47 kg (1) (2)	were women. What was of women to the number (1) 4:6:5 (2) 4:10:5 (3) 6:4:5 (4) 6:10:5  In a supermarket, appleat \$2. Xin Jie has \$8.  (1) 12 (2) 24 (3) 27 (4) 54  The average mass of 3 47 kg. What is the average (1) 17.5 kg (2) 35 kg	were women. What was the ratio of of women to the number of children?  (1) 4:6:5 (2) 4:10:5 (3) 6:4:5 (4) 6:10:5  In a supermarket, apples are only sol at \$2. Xin Jie has \$8. How many at \$2. Xin Jie has \$8. How many at \$2. Xin Jie has \$8. What is the average mass of \$1.5 kg  (1) 12 (2) 24 (3) 27 (4) 54  The average mass of 3 girls is 58 kg at 47 kg. What is the average mass of \$1.5 kg (2) 35 kg	were women. What was the ratio of the number of women to the number of children?  (1) 4:6:5 (2) 4:10:5 (3) 6:4:5 (4) 6:10:5  In a supermarket, apples are only sold in bags of at \$2. Xin Jie has \$8. How many apples can show that the supermarket is supermarket.  (1) 12 (2) 24 (3) 27 (4) 54  The average mass of 3 girls is 58 kg and the average was appled to the supermarket.  (1) 17.5 kg (2) 35 kg	<ul> <li>(1) 4:6:5</li> <li>(2) 4:10:5</li> <li>(3) 6:4:5</li> <li>(4) 6:10:5</li> <li>In a supermarket, apples are only sold in bags of 6. Each bat \$2. Xin Jie has \$8. How many apples can she buy at most supermarket.</li> <li>(1) 12</li> <li>(2) 24</li> <li>(3) 27</li> <li>(4) 54</li> <li>The average mass of 3 girls is 58 kg and the average mass of 47 kg. What is the average mass of these 6 children?</li> <li>(1) 17.5 kg</li> <li>(2) 35 kg</li> </ul>

9 Find the area of triangle ABC below.



- (1)  $30 \text{ cm}^2$
- (2) 32.5 cm<sup>2</sup>
- (3)  $60 \text{ cm}^2$
- (4) 78 cm<sup>2</sup>

10 The solid figure below is made up of unit cubes.

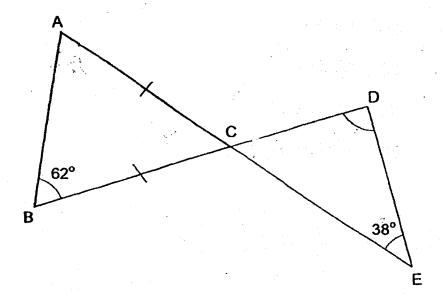


How many more unit cubes need to be added to the solid figure to form a big cube made of 64 unit cubes?

- (1) .28
- (2) 36
- (3) 43
- (4) 48

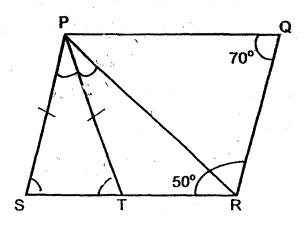
- The length of each piece of ribbon is 105 cm. What is the total length of 200 pieces of such ribbons?
  - (1) 210 cm
  - (2) 2100 cm
  - (3) 21 000 cm
  - (4) 210 000 cm
- 12 What is the value of  $\frac{2}{3} \times \frac{3}{4}$ ?
  - (1)  $\frac{5}{12}$
  - (2)  $\frac{5}{7}$
  - (3)  $\frac{6}{7}$
  - (4)  $\frac{1}{2}$
- Mr Abdul bought 2 identical fans. The usual price of each fan was \$120. He was given a 10% discount for each fan. How much did he pay for the 2 fans after the discount?
  - (1) \$108
  - (2) \$192
  - (3) \$216
  - (4) \$240

14 In the figure below, ACE and BCD are straight lines. AC = BC, ∠ABC = 62° and ∠DEC = 38°. Find ∠CDE.



- (1) 56°
- (2) 62°
- (3) . 86°
- (4) 118°

In the figure below, PQRS is a parallelogram. SP = PT,  $\angle PQR = 70^{\circ}$  and  $\angle SRP = 50^{\circ}$ . Find  $\angle TPR$ .



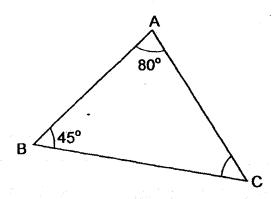
- (1) 20°
- (2) 34°
- (3) 60°
- (4) 70°

Name:		( ) Class	:Pr5( )
PAPER 1 (B	OOKLET B)		
	6 to 20 carry 1 mark each for questions which require		ers in the units
			(5 marks)
16 Find t	he value of 8 + ( 29 + 46 )	÷ 5 × 2.	
			₩
	•	• .	
		Ans:	
17 What	is 24% of 500?		
		Ans:	
18 Find t	he missing number in the b	ox below.	
•	36: =	12 : 9	·
		Ans:	

19 Express 14 kg 25 g in kg.

Ans: \_\_\_\_kg

20 In the figure below, ABC is a triangle. Find ∠ACB.

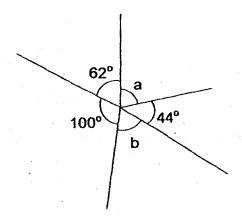


Ans: \_\_\_\_

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

(20 marks)

21 In the figure below,  $\angle a = \angle b$ . Find  $\angle a$ .



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

Arun started saving to buy a bicycle. Each day, he saved \$2.50 less than the day before. At the end of the fourth day, he saved a total of \$95. How much money did he save on the fourth day?

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

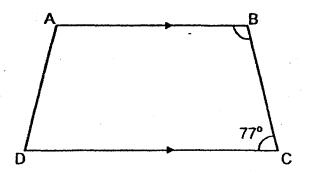
23	The costs of 3 dresses are \$105, \$87	and \$99 respective	ely. What is
	the average cost of the 3 dresses?		

Ans:	\$.	

24 The average height of Aileen, May and June is 125 cm. The average height of Aileen and May is 123 cm. Each statement below is either true, false or not possible to tell from the information given. For each statement, put a tick ( $\sqrt{}$ ) in the correct column.

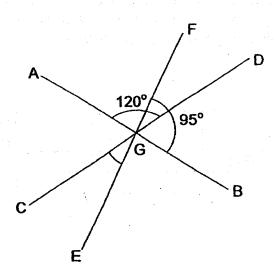
Statement	True	False	Not possible to tell
June's height is 129 cm.			
June is the tallest girl.			

25 In the figure below, ABCD is a trapezium. AB is parallel to DC and ∠BCD = 77°. Find ∠ABC.



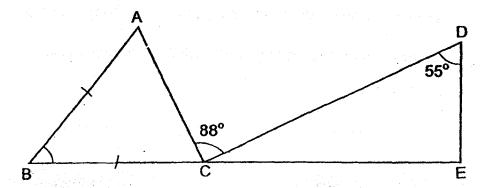
Ans:

26 In the figure below, AGB, CGD and EGF are straight lines.  $\angle$ AGD = 120° and  $\angle$ FGB = 95°. Find  $\angle$ CGE.



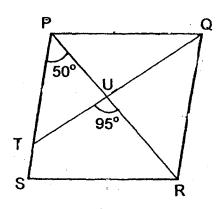
Ans: \_\_\_\_\_

27 In the figure below, BCE is a straight line and AB = BC. ∠CED is a right angle, ∠ACD = 88° and ∠CDE = 55°. Find ∠ABC.



Ans:

In the figure below, PQRS is a rhombus. PUR and QUT are straight lines.  $\angle TUR = 95^{\circ}$  and  $\angle TPU = 50^{\circ}$ . Find  $\angle PQU$ .



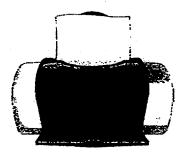
Ans: \_\_\_\_\_

- Two different shops offer the following discounts for the same printer.

  Daniel wants to buy the printer at a lower price.
  - (a) Which shop should he buy the printer from, Shop A or Shop B?
  - (b) How much would he pay for the printer from that shop?



Shop A Usual price \$240 Discount 25%



Shop B
Usual price \$220
Discount 10%.

Ans:	(a)	Shop	
------	-----	------	--

Alisha worked at a café for 7 hours each day from Monday to Friday and worked for 5 hours on Saturday. She did not work on Sunday. She was paid the same amount of money for each hour that she worked from Monday to Friday. She was paid \$1 more for each hour that she worked on Saturday than on Monday. She received a weekly pay of \$285. How much was she paid for each hour on Monday?

Ans:	\$

**END OF PAPER** 



## SECOND SEMESTRAL EXAMINATION 2017

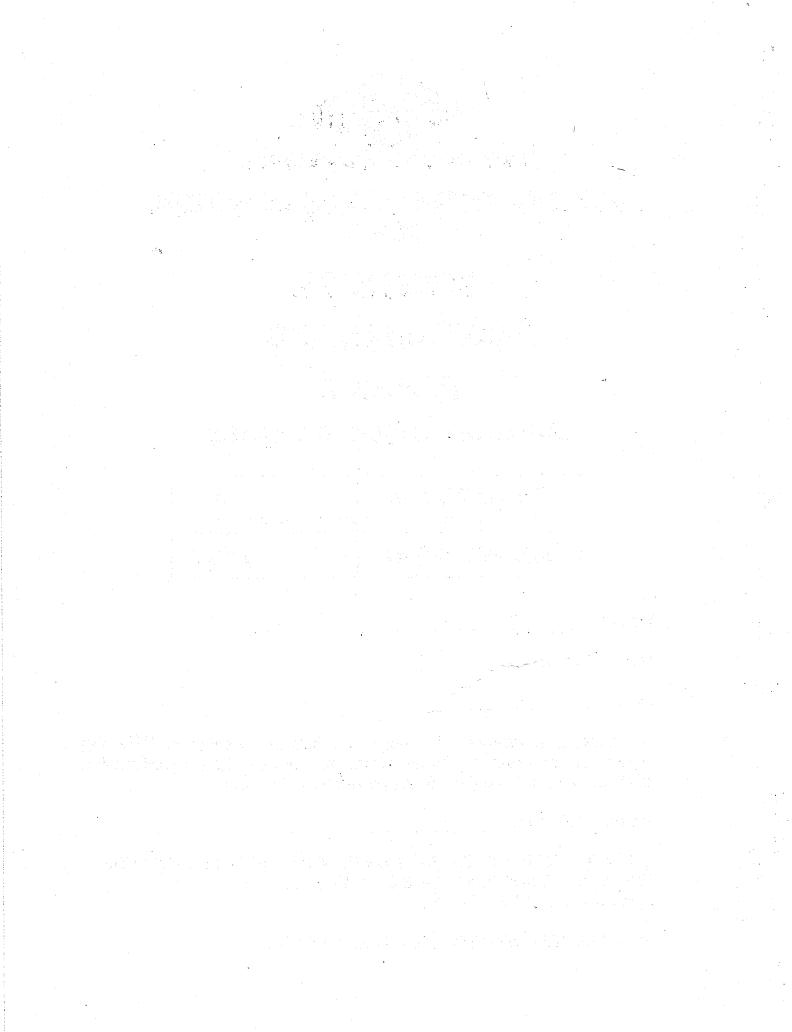
# PRIMARY 5 MATHEMATICS PAPER 2

**DURATION: 1 HOUR 30 MINUTES** 

Paper 2 Total	/ 55
GRAND TOTAL	/ 100

Name:		_ (	)		
Class: Primary 5 (	)				
Date:					
Any query on marks awa seek your understanding of marks will lead to dela	in this	matter as	s any dela	y in the co	
Parent's Signature:					
DO NOT OPEN THIS BO FOLLOW ALL INSTRUC ANSWER ALL QUESTION	CTIONS			TOLD TO	DO SO.

YOU ARE ALLOWED TO USE A CALCULATOR.



### PAPER 2

Questions 1 to 5 carry 2 marks each. Show your working clearly in the 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)

Nazri had 180 stamps.  $\frac{1}{4}$  of them were from Malaysia,  $\frac{1}{6}$  of them were from Japan and the rest were from Singapore. How many stamps from Singapore did he have?

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

The price of a television before GST was \$2320. What was the price of the television after adding 7% GST?

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

3	The ratio of the length of a rectangle to its breadth	is 7:5. The breadth
	of the rectangle is 16 cm shorter than its length.	Find the length of the
	rectangle.	

Ans:		ćm
------	--	----

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

At a supermårket, grapes were sold at \$0.80 per 100 g. Jane bought 1.6 kg of grapes. How much did she pay?

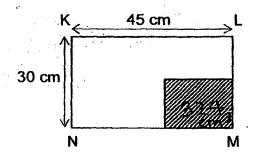
5	The	average of thre	e numbers is 9	0. Two of	the numbers	are 75 and
	80.	What is the th	ird number?			
				*		
				•	•	
		i Selesias per A				
	# ·					igen (1965) Transportation
		÷				**
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				• * *		
			•			
				Ans:		

For questions 6 to 17, show your working clearly in the space provided for each question 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.

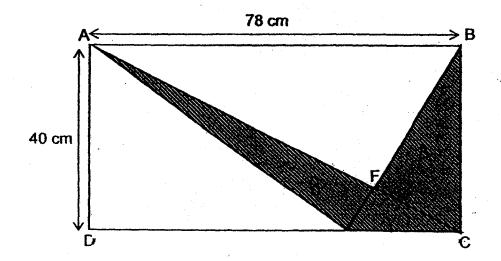
(45 marks)

In the figure below, KLMN is a rectangle. 24% of the area of rectangle KLMN is shaded. Find the area of the unshaded part.



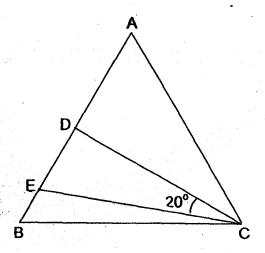
Ans: \_\_\_\_\_[3]

In the figure below, ABCD is a rectangle. AFC and BFE are straight lines. The area of triangle CEF is 130 cm<sup>2</sup>. The length of EC is half the length of DE. What is the total area of the shaded parts?



Ans: \_\_\_\_\_[3]

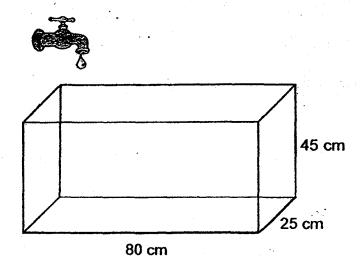
In the figure below, ABC is an equilateral triangle. ADC is a right-angled triangle and  $\angle DCE = 20^{\circ}$ . Find  $\angle BEC$ .



Ans:		[3]
------	--	-----

9	In the figure below, ABC and BCD are isosceles triangles. AB is parallel to CD, AB = BC = BD and ∠ABC = 15°.							
	(a) Find ∠BAC.							
	(b) Find ∠CBD.							

10 A rectangular tank is shown below.



At first, the tank was empty. The tap was turned on and water from the tap flowed at a rate of 2.5 litres per minute into the tank. How long did it take for the tap to fill  $\frac{1}{2}$  of the tank with water? Give your answer in minutes.

Ans: \_\_\_\_\_[3]

At first, Natasha had some stickers. She gave 20% of her stickers to Rita and  $\frac{1}{4}$  of the remainder to her brother. After that, Natasha bought 77 stickers and had a total of 233 stickers in the end. How many stickers did Natasha have at first?

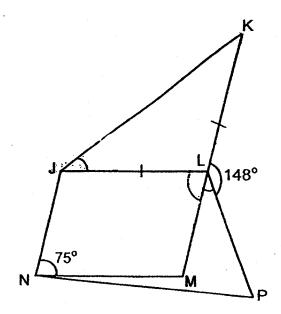
Ans: \_\_\_\_\_[4]

12	Lucas and Dinesh had some m	arbles.	The ratio o	f the number of
	marbles Lucas had to the number	r of marb	oles Dinesh	had was 5:3 at
	first. After Lucas gave half of his	marbles	s to Dinesh,	Dinesh then had
	36 marbles more than Lucas.	How ma	any marble	s did they have
	altogether?			

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

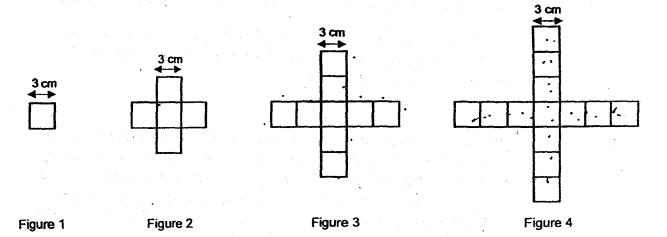
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- In the figure below, JKL is an isosceles triangle with KL = JL. JLMN is a parallelogram. KLM is a straight line, ∠KLP = 148° and ∠JNM = 75°.
  - (a) Find ∠KJL.
  - (b) Find ∠JLP.



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

- The figures below are made up of identical unit squares. The length of each unit square is 3 cm.
  - (a) What is the perimeter of Figure 3?
  - (b) How many unit squares are there in Figure 20?
  - (c) Which figure has 397 unit squares?



Ans: (a) \_\_\_\_\_\_ [1]
(b) \_\_\_\_\_ [2]
(c) Figure \_\_\_\_\_ [2]

16 Mr Chan drove to a shopping mall last Saturday.

(a) The table below shows the parking charges at the carpark in the shopping mall.

	\$2.00 per hour from 8 a.m. to 7 p.m.
Monday to Sunday	or part thereof
	\$3.00 per hour after 7 p.m. or part thereof

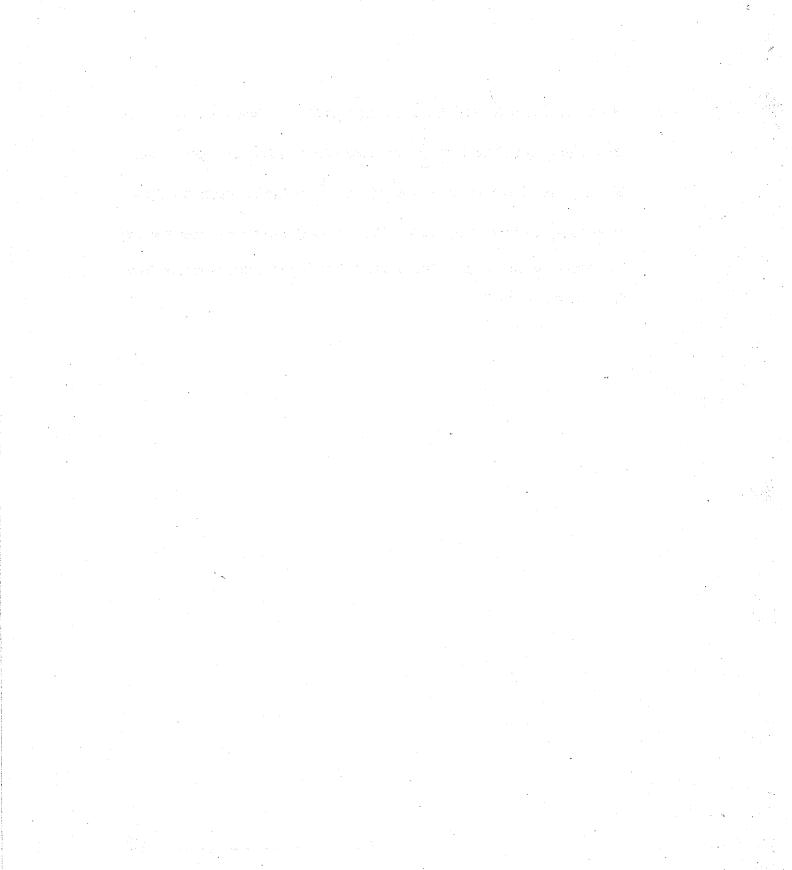
Mr Chan drove into the carpark at 3.30 p.m. and drove out of the carpark at 7.10 p.m. on that day. How much did he pay for the parking charges?

(b) Mr Chan made his way to a sports shop after he parked his car. A \$10 voucher was given for every \$180 spent in the sports shop. He paid the same price for each pair of shoes for each of his 3 children. He realised that he would have to spend at least \$6 more to be able to exchange for \$30 worth of vouchers in total. How much did he pay for each pair of shoes?

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

Mrs Chew had some red, blue and green buttons. She used  $\frac{1}{5}$  of the red buttons for a dress and  $\frac{1}{6}$  of the remaining red buttons for a blouse. She then had 350 buttons left altogether.  $\frac{2}{5}$  of the red buttons left was equal to  $\frac{1}{4}$  of the blue buttons. The ratio of the number of red buttons left to the number of green buttons was 10 : 9. How many red buttons did she have at first?

	· · · · · · · · · · · · · · · · · · ·	
Ans:	·	[4]



SCHOOL: NANYANG PRIMARY SCHOOL

EVEL

PRIMARY 5

SUBJECT :

MATH

TERW:

2017 SA2

CONTACT:

### PAPER 1 BOOKLET A

Q 1	Q2	Q3	Q4	Q5	Q6	07	- 08	Q9	010	1
3	3	1	2	Ą	3	2	3	1	1	

Q 11	Q12	Q13	Q14	Q15
3	4	3	3	1

## PAPER 1 BOOKLET B

Q16)	38
Q17)	120
Q18)	27
	14.025
Q20)	
Q21)	360 - 100 - 62 - 44 = 154
022)	$154 \div 2 = 77$ $$2.50 \times 6 = $15$
(422)	\$95 - \$15 = \$80.
	\$80 ÷ 4 = <b>\$20</b>
Q23)	\$105 + \$87 + \$99 =\$291
	\$291 ÷ 3 = <b>\$97</b>
Q24)	125 x 3 = 375
	123 x 2 = 246
025)	375 - 246 = <b>129</b> 180° - 77° = <b>103°</b>
<u> </u>	$120^{\circ} + 95^{\circ} = 215^{\circ}$
	215° – 180° = <b>35°</b>
Q27)	$180^{\circ} - 50^{\circ} - 90^{\circ} = 35^{\circ}$
	$180^{\circ} - 88^{\circ} - 35^{\circ} = 57^{\circ}$
	180° - 57° - 57° = <b>66°</b>
	180° - 50° - 95° = <b>35°</b>
Q29)	Shop A: 25/100 x \$240 = \$60

\$240 - \$60 = \$180 Shop B : 10/100 x \$220 = \$22 \$220 - \$22 = \$\$198 (a) **Shop A** (b) **\$180** Q30) 7 x 5 = 35 \$1 x 5 = \$5 \$285 - \$5 = \$280 35 + 5 = 40( No. of hours weekly) \$280 ÷ 40 = **\$7** 

#### PAPER 2

```
180^{\circ} - 20^{\circ} - 90^{\circ} = 70^{\circ} (Angle DEC)
  (89)
              180^{0} - 70^{0} = 110^{0} (Angle BEC)
          (a) 180^{\circ} - 15^{\circ} = 165^{\circ}0 (Angle BAC + Angle ACB)
 Q9)
                165^{\circ} \div 2 = 82.5^{\circ} (Angle BAC)
          (b) Angle BCD = 15° (Alternate Angle)
              180^{\circ} - 15^{\circ} - 15^{\circ} = 150^{\circ} (Angle CBD)
 Q10) 45 \div 2 = 22.5
          80 \times 25 \times 22.5 = 45000
          45000 \text{ cm}^3 = 45 L
          45 \div 2.5 = 18
 Q11) 288 \div 2 = 144
          (At first) 3U \Rightarrow 144 - 18 + 60 = 186
          1U \rightarrow 186 \div 3 = 62
          288 - 122 = 166
 Q12)
                     L : D : Total
                      5:3:8
                  = 10 : 6 : 16
          10 \div 2 = 5 (what L gave to D)
         6 + 5 = 11 (what D has now)
         10 - 5 = 5 (what L has now)
         11 - 5 = 6 (Difference)
         6 Units → 36
         1 Unit \rightarrow 36 ÷ 6 = 6
         16 Units \rightarrow 6 x 16 = 96
Q13) 85 \times 3 = 255
         72 - 69 = 3
         72 \times 3 = 216
         255 - 216 = 39
         39 \div 3 = 13
         13 \div 3 = 16
Q14) (a) 360^{\circ} - 148^{\circ} - 107^{\circ} = 105^{\circ}
             180^{\circ} - 105^{\circ} = 75^{\circ}
             75^{\circ} \div 2 = 37.5^{\circ}
        (b) 180^{\circ} - 148^{\circ} = 32^{\circ}
```

$75^{0} + 32^{0} = \underline{107^{0}}$ Q15) (a) $3 \times 20 = \underline{60}$ (b) $20 - 1 = 19$ $19 \times 4 = 76$ $76 + 1 = \underline{77}$ (c) $397 - 1 = 396$ $396 + 4 = 99$ $99 + 1 = \underline{100}$ Q16) (a) $\$2 + \$2 + \$2 + \$2 + \$3 = \underline{\$11}$ (b) $\$180 \times 3 = \$540$ $\$540 - \$6 = \$534$ $\$534 \div 3 = \underline{\$178}$ Q17) $1 - 1/5 = 4/5$ $4/5 \times 1/6 = 2/15$ $4/5 - 2/15 = 2/3$ (R left) $2/5$ of $R = 2/8$ of B $\frac{R: B - R: G}{5:8 - 10:9}$ 10: 16 $\frac{R: B: G: Total}{10: 16: 9: 35}$ 35 Units $\Rightarrow 350$ 1 Unit $\Rightarrow 350 + 35 = 10$ 10 Units $\Rightarrow 10 \times 10 = 100$ (R left) $2/3$ of $R \Rightarrow 100$ $1/3$ of $R \Rightarrow 100 \div 2 = 50$ $3/3$ of $R \Rightarrow 50 \times 3 = \underline{150}$		4	
(b) $20-1 = 19$ $19 \times 4 = 76$ 76 + 1 = 77 (c) $397 - 1 = 396$ $396 \div 4 = 99$ 99 + 1 = 100 Q16) (a) $\$2 + \$2 + \$2 + \$2 + \$3 = \$11$ (b) $\$180 \times 3 = \$540$ \$540 - \$6 = \$534 $\$534 \div 3 = \$178$ Q17) $1 - 1/5 = 4/5$ $4/5 \times 1/6 = 2/15$ 4/5 - 2/15 = 2/3 (R left) $2/5$ of R = $\frac{7}{4}$ of B $2/5$ of R = $\frac{7}{4}$ of B $2/5$ of R = $\frac{7}{4}$ of B $2/5$ of R = $\frac{7}{4}$ of B 10 : 16 R: B: G: Total 10 : 16 : 9 : 35 $35$ Units $\Rightarrow 350$ $1$ Unit $\Rightarrow 350 \div 35 = 10$ $10$ Units $\Rightarrow 10 \times 10 = 100$ (R left) $2/3$ of R $\Rightarrow 100$ $1/3$ of R $\Rightarrow 100 \div 2 = 50$		$75^0 + 32^0 = 107^0$	
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