PEI CHUN PUBLIC SCHOOL SEMESTRAL ASSESSMENT 1, 2017

MATHEMATICS PRIMARY 5

PAPER 1

(BOOKLET A)

Additional materials: Optical Answer Sheet (OAS)

Total Time For Booklets A & B: 1h

Name	:		()
Class		Primary 5		
Date	:	5 May 2017		
Maths	Te	eacher:		

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.

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 correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.

- In 9 765 382, which digit is in the hundred thousands place?
 - (1) 5
 - (2) 6
 - (3) 3
 - (4) 7
- 2. What is the value of 800 x 50?
 - (1) 4000
 - (2) 40 000
 - (3) 400 000
 - (4) 4 000 000
- 3. Which of the following has the same value as $\frac{3}{25}$?
 - (1) 0.12
 - (2) 0.15
 - (3) 0.25
 - (4) 0.3

4. Which of the following is correct?

(1)
$$\frac{2}{5} = \frac{5}{15}$$

(2)
$$\frac{3}{5} = \frac{18}{30}$$

(3)
$$\frac{6}{7} = \frac{42}{56}$$

$$(4) \qquad \frac{8}{12} = \frac{32}{36}$$

Which of the following angles is smaller than a right angle? 5.





(2)



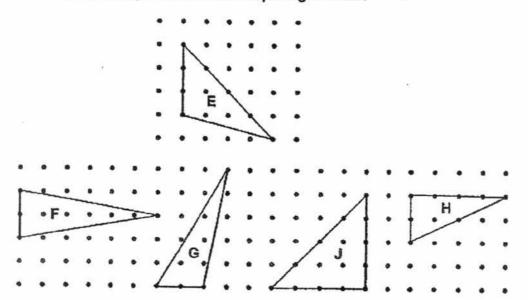
(3)





- 6. Arrange the following numbers from the largest to the smallest.
 - 8, 8.1, 8.01
 - (1) 8 , 8.01 , 8.1
 - (2) 8.01 , 8.1 , 8
 - (3) 8.1 , 8 , 8.01
 - (4) 8.1 , 8.01 , 8
- What is the place value of digit 5 in 24.159?
 - (1) tens
 - (2) tenths
 - (3) hundreds
 - (4) hundredths
- 8. Express 0.06 as a fraction.
 - (1) $\frac{6}{10}$
 - (2) $\frac{6}{100}$
 - (3) $\frac{6}{1000}$
 - (4) $\frac{60}{100}$

There are five triangles shown on the square grid below.



Which of the following triangles has the same area as Triangle E?

- (1) Triangle F
- (2) Triangle G
- (3) Triangle H
- (4) Triangle J
- 10. A movie started at 19 30. It lasted 125 min. At what time did the movie end?
 - (1) 17 25
 - (2) 18 05
 - (3) 21 35
 - (4) 21 55

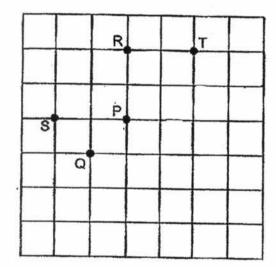
11. The table below shows the mass of 3 objects.

Objects	Mass
w	12 kg
X	72 kg
Υ	42 kg

What is the ratio of the mass of Object W to the mass of Object X to the mass of Object Y in its simplest form?

- (1) 2:12:7
- (2) 2:7:12
- (3) 4:24:14
- (4) 6:36:21
- 12. Which of the following is closest to 1?
 - (1) $\frac{9}{8}$
 - (2) $\frac{8}{9}$
 - (3) $\frac{7}{6}$
 - (4) $\frac{6}{7}$

- 13. The lengths of the sides of a triangle are in the ratio 3:5:6. The length of the longest side is 30 cm. What is the perimeter of the triangle?
 - (1) 5 cm
 - (2) 10 cm
 - (3) 70 cm
 - (4) 140 cm
- 14. In the square grid below, James was standing on Point P facing south-east.

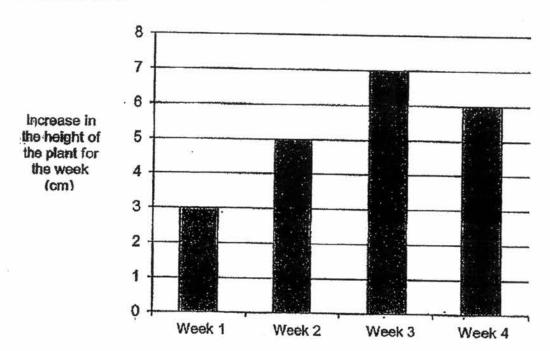


1

Then James turned 135° clockwise. Which point is he facing now?

- (1) Q
- (2) R
- (3) S
- (4) T

15. Jack bought a plant that was 12 cm tall. At the end of each week, he measured the height of the plant and recorded its increase for the week. The bar graph below shows his records.



What was the height of the plant when it was measured at the end of Week 3?

- (1) 7 cm
- (2) 15 cm
- (3) 19 cm
- (4) 27 cm

PEI CHUN PUBLIC SCHOOL SEMESTRAL ASSESSMENT 1, 2017

MATHEMATICS PRIMARY 5

PAPER 1 (BOOKLET B)

Total Time For Booklets A & B: 1 h

Name	:	()
Class	:	Primary 5	
Date	:	5 May 2017	
Maths	T	eacher:	

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.

WRITE YOUR ANSWERS IN THIS BOOKLET.

YOU ARE NOT ALLOWED TO USE A CALCULATOR.

16.	Write five million, forty-	two thousand and ten in figures.
		Answer:
17.	Find the value of $\frac{4}{7}$ +	
		Answer:
18.	Find the value of $\frac{3}{7} \times \frac{3}{7}$	
		Answer:
19.	Write down the first tw	common multiples of 3 and 5.
-		Answer:and
		SCORE
MAI PS	/SA1/2017	Page 1 of 7 (Go on to the next page

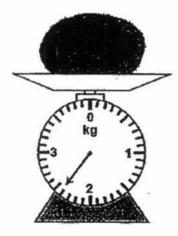
20.	Mary has 6 times as much money as john. What is the ratio of the amount o
	money john has to the amount of money Mary has?

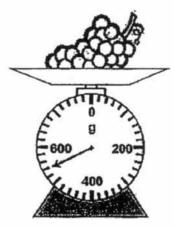
Do not write in this space

Answer			
/ W104401	٠	-	

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)

 Find the total mass of the watermelon and the bunch of grapes Express your answer in kilograms and grams.





Answer	:kç]
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22.	(a)	Round 32 504 to the nearest 10.	Do not write
	(b)	The population of a town is 9000 when rounded to the nearest 100. What is the lowest possible number of people in that town?	In this space
		Answer : (a)	
23.	Wha	t are the missing numbers in the boxes?	
	(a)	7000 + ? = 70	
	(b)	48 600 + 300 = ?	
		Answer : (a)	
		(b)	
24.	Wha	are the missing numbers in the boxes?	
	(a)	12.2 – 4.33 = ?	
	(b)	32.72 + 8 = 7	
		×	
		6)	
		Answer : (a)	
			1

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252	Plant	11_		-
25.	PHKI	me	value	OI
-	7 20 1 40	**	10140	~

Do not write in this space

- (a) 10-4×2+1
- (b) $(54+6)+3\times2$

Answer: (a)

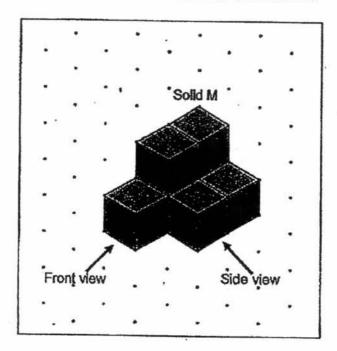
(b)___

26. John had \$260. He spent $\frac{1}{5}$ of it on a pair of shoes. How much did John spend on the shoes?

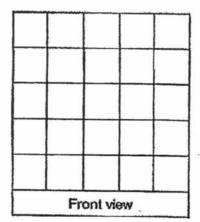
Answer:\$____

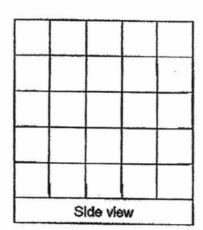
.27. The participants in a quiz were Indians, Chinese and Malays in the ratio 2:7:4. There were 84 Malay participants. How many more Chinese participants than Indian participants were there?

Answer:



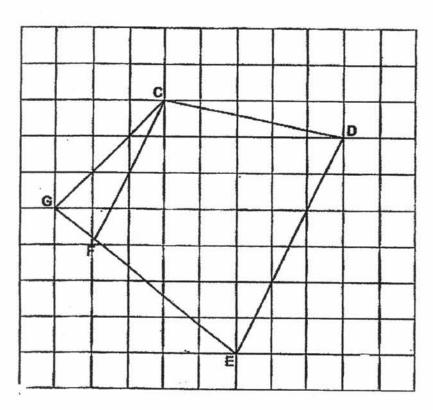
Draw on the square grid below the front view and the side view of Solid M.





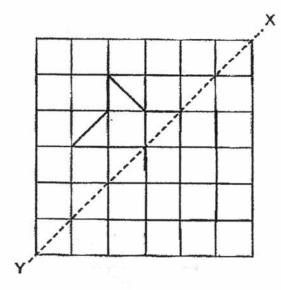
29. (a) In the figure below, name two lines that are parallel to each other.



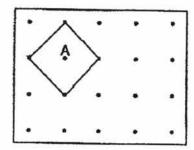


	0.00024
Answer: (a)	and

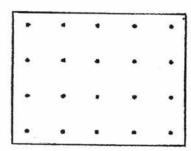
(b) Draw the other half of the symmetrical figure along the line of symmetry XY.



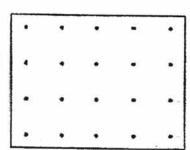
SCORE	
	Contract to the second



(a) Draw a square that is twice as big as Square A in the grid below.



(b) Draw a rectangle that is 3 times as big as Square A in the grid below.



End of Paper

Set by : Mdm Joyce Cheng, Mr Stanley Soh and Mr Teng Beng Chye

PEI CHUN PUBLIC SCHOOL SEMESTRAL ASSESSMENT 1, 2017

MATHEMATICS PRIMARY 5

PAPER 2

Time: 1 h 30 min

Name	:	()	
Class	: Primary 5			
Date	: 5 May 2017			
Maths	Teacher:			
Parent	's Signature:	_		

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.

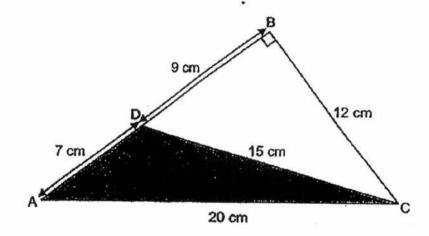
Questions 1 to 5 carry 2 marks each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this space

 Alexis cut a 6-m coll of wire into 7 equal pieces. How long was each piece of wire in metre? Express your answer correct to 2 decimal places.

nswer	•	***
N IDAACI	•	m

Find the area of the shaded triangle ACD shown below.



Answer:		cm
	The same of the sa	

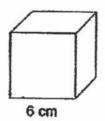
SCORE

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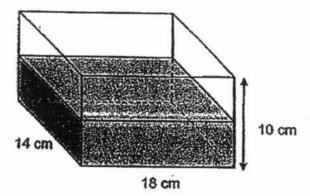
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3. Find the volume of a cube of edge 6 cm.



Answer: cm³

4. A rectangular tank measuring 18 cm by 14 cm by 10 cm is $\frac{1}{2}$ filled with water. How much water is in the tank?



Answer: _____cm

5.	Alsh give	ah bought 40 packets of drinks at \$0.85 each. How much money did she the cashler if she received \$1 change?	Do not write in this space
		Answer: \$	
PIONO	6a. II	is 6 to 17, show your working clearly and write your answers in the spaces ne number of marks available is shown in brackets [] at the end of each part-question. (45 marks)	-
6.	Oma	ge bowl cost \$4. A small bowl cost \$2,30 less than a large bowl. The bought the same number of bowls as Raj and paid \$16.10 more than Raj. The bought only large bowls and Raj bought only small bowls.	-
	(a)	What is the cost of a small bowl?	
	(b)	How many bowls did Raj buy?	
		Answer : (a)[1]	
111		(b)[≱]	
		SCOR	·
MA/P5	/ SA1 /		
		,	

 The table below shows the number of boys and girls who wear or do not wear spectacles in a Primary 5 class. Some of the data are missing.

i	Do not write
i	in this space

	Number of pupils who wear spectacles	Number of pupils who do not wear spectacles
Boys	6	12
Girls	7	?
Total	?	20

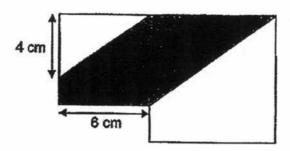
- (a) What fraction of the boys wear spectacles?
- (b) There are 42 pupils in the class. How many girls wear spectacles in the class?

Answer:	(a)		[1	1
---------	-----	--	----	---

8.	rece	gave a sum of money to his wife and 4 children in the ratio 5:9. His wife ived \$80. Each of his children received an equal amount of money. much did each of his children receive?	Do not write in this space
		a	
220		Answer : [3]	
9.		e are some marbles in a container. $\frac{1}{3}$ of the marbles are blue. $\frac{1}{4}$ of the lining marbles are yellow and the rest are red.	
	(a)	What fraction of the marbles in the container are yellow?	
	(b)	There are 504 red marbles. How many yellow marbles are there in the container?	
		4	
		Answer : (a)[1]	
		(b)[2]	
		SCORE	
MA/PS	5/SA1/		

10. The figure is made up of two squares. The area of the bigger square is 81 cm².

Do not write in this space

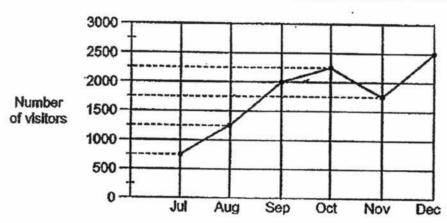


Find the area of the shaded part.

Answer:_____[4

11. The graph below shows the number of visitors at a museum over 6 months.





- (a) Find the difference in the number of visitors between August and October.
- (b) In November, $\frac{3}{5}$ of the visitors were adults. How many children visited the museum in November?

Answer: (a)	 [1]

12.	Shannon bought 2 ℓ of apple juice. She drank $\frac{3}{8}$ of the juice and her brother	Do not write in this space
	drank $\frac{2}{3}$ ℓ of the remaining juice How much apple juice, in ℓ , had Shannon left? Express your answer in fraction.	
		1
	and the second of the second o	
	Answer:[3]	

	SCORE	
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The fi	pure below is formed by 5 Identical rectangles. The total area of the figure cm ² .
(a)	What is the length of each rectangle?
(b)	What is the perimeter of the figure?
	*
	Answer : (a)
	Answer: (a)[3] (b)[2]
	SCORE

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14.	For every correct answer	nt has to answer 85 question given, the contestant scores given, 1 point is deducted.	s, 3 points.	Do not write in this space
	Bill answered all the ques	itions and scored a total of 1 Bill answer correctly?	83 points.	
			917	
			. a	
		Answer:	[4]	
***************************************	***************************************		SCORE	
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15.	For every 15 ons	Of Discuits he sell	ins of biscuits he sells s, he earns an addition if he sells 396 tins of i	nal ¢A	Do not write in this space
				:de-	
		*			
			Answer:	[4]	6:
	in the second se	· · · · · · · · · · · · · · · · · · ·		SCOR	E
MA/P5	5/SA1/2017	Page	11 of 13	(Go on to the next page)	

- 16. Rachel, Sally and Tammy shared \$372. After Rachel spent $\frac{2}{5}$ of her share, Sally spent $\frac{1}{2}$ of her share and Tammy spent $\frac{1}{3}$ of her share, the girls found that they had the same amount of money left.
- Do not write in this space

- (a) What was Sally's share of the money at first?
- (b) How much money did the three girls spend altogether?

Answer	:	(a)	[31

SCORE

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	used square tile	es to form the following patterns.					
4							
Pattern 1	Pattern		Pattem 4				
The table be	elow shows the	number of square tiles in each pa	attem.				
	Pattern	Number of square tiles					
	1	5					
	2	12					
	3	21					
-	4	31					
L	5	(a)					
(a) Com	[1]						
(b) How							
(c) Whic	h pattern numb	er will have exactly 320 square ti	es?				
*							
24.		Answer : (b)	[2]				

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YEAR

: 2017

LEVEL

: P5

SCHOOL : PEI CHUN PUBLIC SCHOOL

SUBJECT : MATHEMATICS

TERM

: SA1

Paper 1 (Booklet A)

Q1	4	Q2	2	Q3	1	Q4	2	Q5	1
Q6	4	Q7	4	Q8	2	Q9	1	Q10	3
Q11	1	Q12	2	Q13	3	Q14	2	Q15	4

Paper 1 (Booklet B)

Q16 5042010

Q17 34/35

Q18 6/49

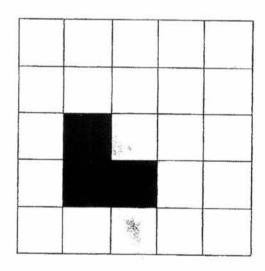
Q19 15,30

Q20 1:6

Q21 2kg 940g

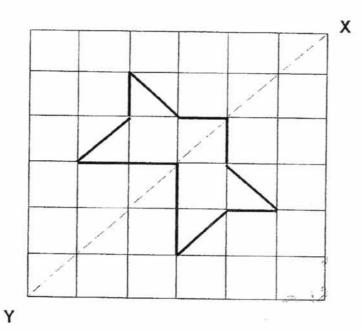
Q22 32500

- Q23 (a) 100
 - (b) 162
- Q24 (a) 7.87
 - (b) 4.09
- Q25 (a) 3
 - (b) 40
- Q26 52
- Q27 105
- **Q28**



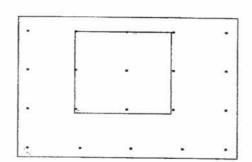
2 Q29 (a) CF,DE

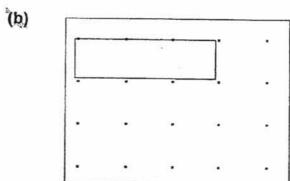




Q30

(a)





Paper 2

Q2 Area of whole figure
$$\rightarrow 1/2 \times (7+9) \times 12$$

= $1/2 \times 16 \times 12$
= 96cm^2

Q3 Volume of cube
$$\rightarrow$$
6×6×6
= 216cm³

(b) Extra
$$\to$$
16.10÷2.30 = 7 bowls

- Q7 (a) 6/12+6 = 6/18
 - (b) Girls who do not wear spectacles→20-12 = 8
 Pupils who wear spectacles→42-20 = 22
 Girls who wear spectacles→22-6 = 16 girls
- Q8 5u=\$80 9u=\$144 4 Children=\$144 1 Children=\$144÷4 = \$36
- Q9 (a) 1/6
 - (b) 3u=504 1u=504÷3 =168 yellow marbles
- Q10 Length of bigger square→9×9 = 81
 Unshaded area in smaller square→1/2×4×6 = 12
 Area of smaller square→6×6 = 36
 Shaded part in small square→36-12 = 24
 Shaded part in big square→1/2×9×6 = 27
 Total shaded area→27+24 = 51cm²
- Q11 (a) Difference→2250-1250 = 1000 visitors
 - (b) 2/5×1750 = 700 children
- Q12 Drank→3/8×2 = 6/8L Left →2L-6/8L-2/3L = 7/12L
 - Q13 1 Square -- 375÷15 = 25

1 Breath→Square root of 25 = 5

- (a) Length \rightarrow 5×3 = 15cm
- (b) Perimeter \rightarrow 8×2×5 = 80cm
- Q14 Total marks→85×3 = 255 1 group→3+1 = 4 Marks to return=>255-183 = 72 Wrong→72÷4 = 18 Correct→85-18 = 67 marks
- Q15 How much \$ he earn (1 group) (15÷3)×5+4 = 29 ? groups→396÷15 = 26R6 How much he earns→(26×29)+(5×2) = \$764
- Q16 (a) Rachel left \rightarrow 1 2/5 = 3/5 = 6/10 Sally left \rightarrow 1 - 1/2 = 1/2 = 6/12 Tammy left \rightarrow 1 - 1/3 = 2/3 = 6/9 31 units = 372 1 unit = 372 ÷ 31 = 12 Sally \rightarrow 12x12 = \$144
 - (b) 13 units →12x13= \$156
- Q17 (a) 45
 - (b) Pattern $1 \rightarrow 5x1 = 5$ Pattern $2 \rightarrow 6x2 = 12$ Pattern $3 \rightarrow 7x3 = 21$ Pattern $4 \rightarrow 8x4 = 32$

Pattern 25 → 29x25 = 725

(c) 12x16 = 192 15x19 = 285 16x20 = 320