## RIVER VALLEY PRIMARY SCHOOL SEMESTRAL ASSESSMENT 1 2019 MATHEMATICS PRIMARY SIX

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Class : Primary 6 (\_\_\_\_\_)

Date : <u>17 May 2019</u>

Duration : 60 min (Total time for Booklets A and B)

#### PAPER 1

#### (BOOKLET A)

## INSTRUCTIONSTO CANDIDATES

- 1. Write your Name, Register No. and Class in the space above.
- 2. Do not turn over this page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Shade your answers on the Optical Answer Sheet (OAS) provided.
- 6. You are not allowed to use a calculator.

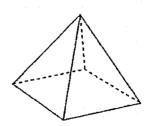
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)

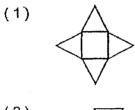
1. What does the digit 5 in 4.153 stand for?

- (1) 5 ones
- (2) 5 tenths
- (3) 5 hundredths
- (4) 5 thousandths
- 2. Machine A can pack 1000 boxes in an hour. Machine B can pack 800 similar boxes in an hour. At these rates, how many more boxes can Machine A pack than Machine B in 6 hours?
  - (1) 10800
  - (2) 6000
  - (3) 4800
  - (4) 1200

3.  $40 + \frac{4}{100} + \frac{4}{1000} =$ (1) 40.044
(2) 40.404
(3) 40.440
(4) 44.040

4. Which of the following is **not** a net of this figure?







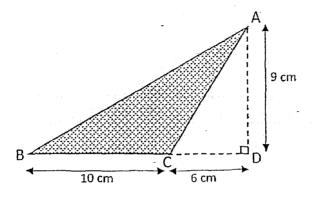
(3)

(4)

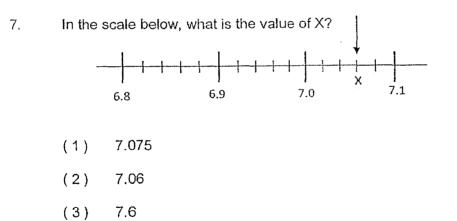
5. 40% of a number is 240. What is the number?

- (1) 96
- (2) 144
- (3) 600
- (4) 960

6. What is the area of the shaded triangle ABC below?



- (1) 27 cm<sup>2</sup>
- (2) 45 cm<sup>2</sup>
- (3) 72 cm<sup>2</sup>
- (4) 90 cm<sup>2</sup>



(4) 7.3

- 8. Rashid took 50 min to walk from his house to the park and back. If his average speed for the whole journey was 30 m/min, what was the distance between his house and the park?
  - (1)  $1\frac{2}{3}$ m (2)
  - $\frac{3}{5}$  m
  - (3) 750 m
  - (4) 1500 m

Siti has  $\frac{4}{5}$  m of cloth. She used  $\frac{1}{4}$  of it. How much cloth did she have left? 9.

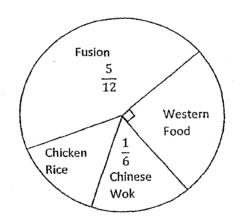
 $(1) \frac{1}{5}m$  $(2) \frac{3}{5} m$  $(3) \frac{9}{20}$  m

(4)  $\frac{11}{20}$  m ·

Which of the following is likely to be the height of the school's flagpole? 10.

- (1)45 cm
- (2)450 cm
- (3)45 m
- (4) 450 m

- Mrs Sim had \$20. After buying 4 identical files, she had \$m left.
   Express the cost of 1 file in terms of m.
  - (1)  $(\frac{20-m}{4})$
  - (2) \$  $(20 \frac{m}{4})$
  - (3) \$(20-4m)
  - (4)  $(\frac{20m}{4})$
- 12. The pie chart shows the favourite stalls of the pupils in Primary 6. Each pupil could only choose one stall.



48 more pupils chose the Fusion stall than the Western Food stall as their favourite stall. How many Primary 6 pupils were there altogether?

- (1) 72
- (2) 120
- (3) 192
- (4) 288

- 13. A shop was selling mobile phones at a discount of 15%. As a member of the shop, Mr Lee received an additional 10% discount on top of the discounted price. In the end, he paid \$765 for a mobile phone. What was the total discount that Mr Lee received?
  - (1) \$85
  - (2) \$150
  - (3) \$235
  - (4) \$1000
- 14. Alice and Candice have a total of \$128. Candice and Belinda have a total of \$78. Alice has three times as much money as Belinda. What is the average amount of money the three girls have?
  - (1) \$51
  - (2) \$75
  - (3) \$153
  - (4) \$206
- 15.

A rope was first cut into 2 pieces in the ratio of 3 : 2. The longer piece was then cut into 2 pieces in the ratio 3 : 1. Among the three pieces, the longest piece was 18 cm. What was the original length of the rope before it was **first** cut?

- (1) 24 cm
- (2) 30 cm
- (3) 36 cm
- (4) 40 cm

#### **RIVER VALLEY PRIMARY SCHOOL**

#### **SEMESTRAL ASSESSMENT 1**

2019

## MATHEMATICS

### **PRIMARY SIX**

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Name	· · · · · · · · · · · · · · · · · · ·	
numo	· · ·	

Class : Primary 6 (\_\_\_\_\_\_)

Date : <u>17 May 2019</u>

Duration: 60 min (Total time for Booklets A and B)

#### PAPER 1 (BOOKLET B)

#### **INSTRUCTIONSTO CANDIDATES**

- 1. Write your Name, Register No. and Class in the space above.
- 2. Do not turn over this page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. You are not allowed to use a calculator.

#### SUMMARY OF MARKS :

			Questions	Marks Awarded	Maximum Marks
Paper	Booklet A	MCQ	1 - 15		20
1	Booklet B	SAQ	16 - 30		25
Paper		SAQ	1 – 5		10
2		LAQ	6 - 17	· · · · · · · · · · · · · · · · · · ·	45
		Total			100

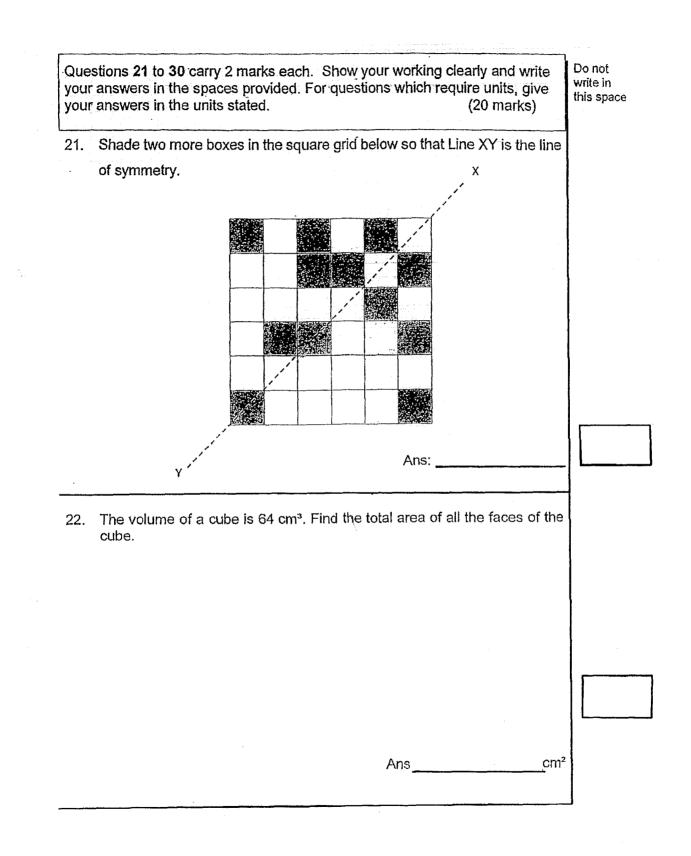
Parent's Signature :

prov	stions 16 to 20 carry 1 mark each. Write your answers in the spaces ided. For questions which require units, give your answers in the s stated. (5 marks)	Do not write in this space
16.	Write two hundred and five thousand and eighty-four in numerals.	
	Ans:	
17.	64 099 people watched a match at the stadium. Round off the number of people to the nearest hundred.	
	Ans:	
18.	Measure and write down the size of $\angle$ f.	
	F	
	Ans:°	

-

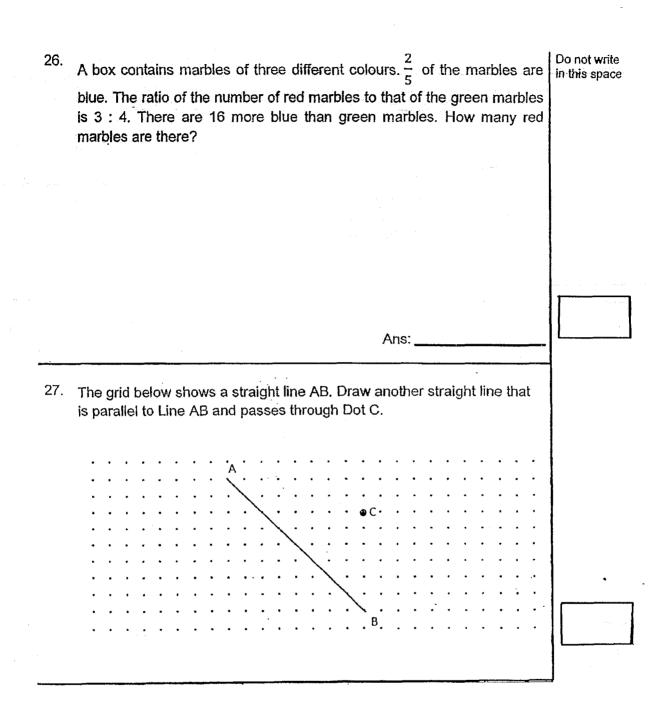
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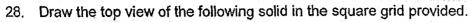
19.	Find the value of 1.08 x 40	Do not write
		in this space
	Ans:	
20	7	
20	Express $\frac{7}{9}$ as a percentage. Give your answer to the nearest	
	1 decimal place.	
	•	
· .	Ans:	%
		]



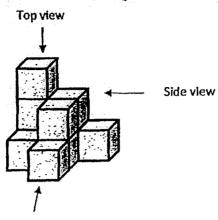
	the other is a 3-digit number. What is the <b>largest</b> possible difference between the two numbers?	in this space
	Ans:	
24.	The table shows how much a shop charges for dry-washing services.	
	First 5 jackets \$50	
	Each additional jacket \$8	
	send to dry wash?	
	Ans:	
25.		
25.	Ans: Bee Ling had 1080 red, blue and yellow beads. She had 20 more blue beads than red beads. She had 3 times as many yellow beads as blue	
25.	Ans: Bee Ling had 1080 red, blue and yellow beads. She had 20 more blue beads than red beads. She had 3 times as many yellow beads as blue	
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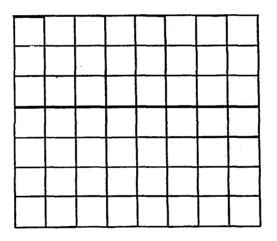


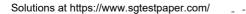


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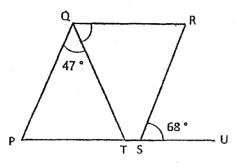


Front view





29. In the figure below, PQRS is a parallelogram. PTSU is a straight line.  $\angle$  PQT = 47° and  $\angle$ RSU = 68°. Find  $\angle$ RQT.



30. Last year, Weiting saved an average of \$80 per month from January to November. She did not save any money in December.

Each statement below is either true, false or not possible to tell from the information given. For each statement, put a ( $\sqrt{}$ ) in the correct column.

Ans:

Statement	True	False	Not possible to tell
a) Weiting saved a total of \$950 last year.			
<ul> <li>b) The average amount of money that Weiting saved from January to November was higher than the average amount of money she saved from January to December.</li> </ul>			

- End of Booklet B -

# RIVER VALLEY PRIMARY SCHOOL SEMESTRAL ASSESSMENT 1 2019 MATHEMATICS PRIMARY SIX

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Name	• •	(	Ĺ

Class : Primary 6 (\_\_\_\_\_)

Date : <u>17 May 2019</u>

Duration: 1 h 30 min

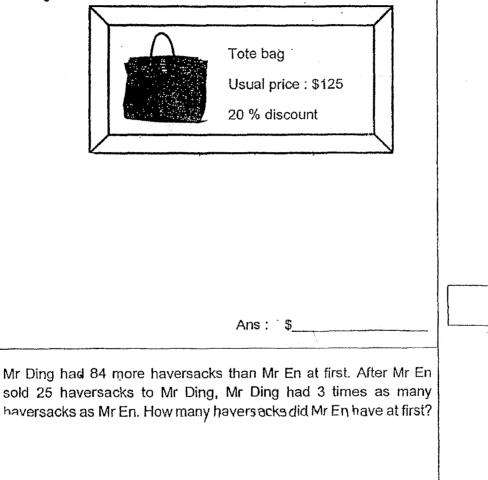
#### PAPER 2

#### INSTRUCTIONS TO CANDIDATES

- 1. Write your Name, Register No. and Class in the space above.
- 2. Do not turn over this page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. You are <u>allowed</u> to use a calculator.

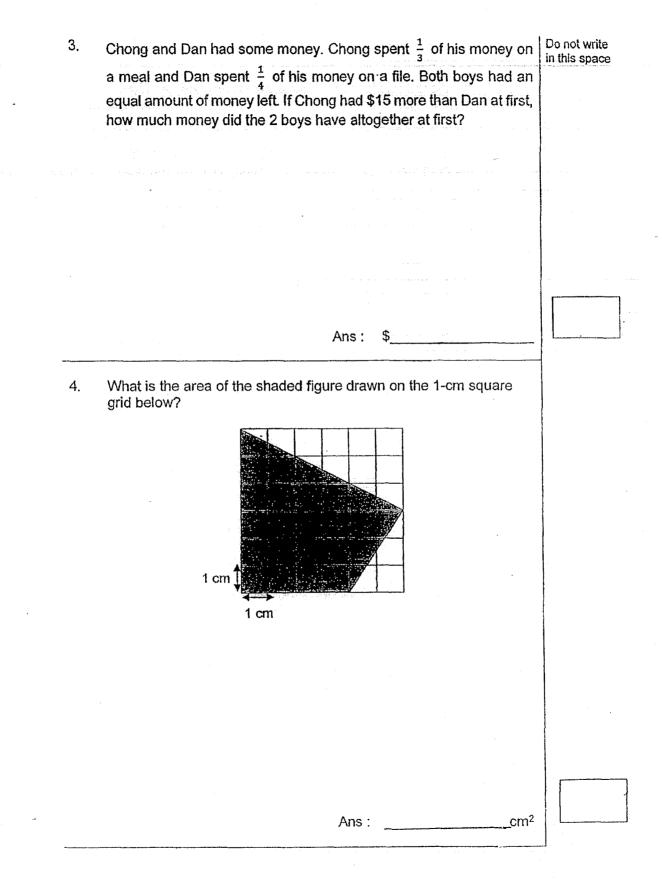
Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

1. Asree bought the bag shown in the advertisement below. She still Do not write had to pay 7% GST after the discount. How much did she pay for the bag?



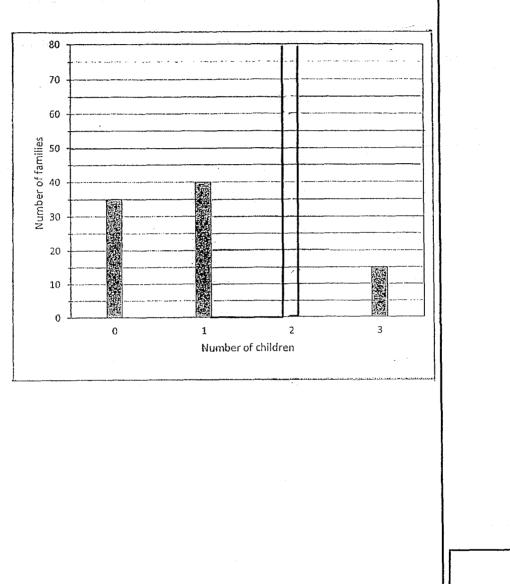
2.

Ans :



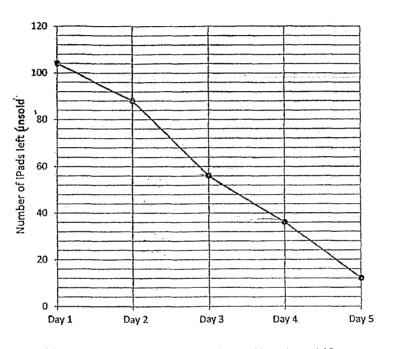
5. The bar graph shows the number of children in the families living in a block of flats.  $\frac{2}{5}$  of the families in the block of flats have 2 children. Draw the bar that shows the number of families with 2 children.

Do not write in this space



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)

6. A shop offered 120 iPads at a discount during a 5-day sale. The line Do not write graph below shows the number of iPads left unsold at the end of each day.



(a) On which day was the most number of iPads sold?

(b) What percentage of the 120 iPads were sold in the first 2 days of the sale? Leave your answer correct to 1 decimal place.



(b) \_\_\_\_\_(2)

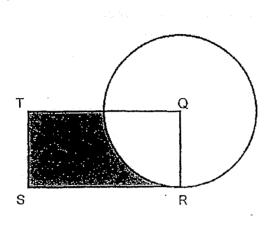


7.	Mrs T	an paid \$ <i>m</i> for 3	pies and 2 c	akes. Each p	ie cost \$4.		Do not writ in this spac
	(a)	How much dic of <i>m</i> .	l each cake o	cost? Leave y	vour answer i	n terms	
	(b)	How much dic	l each cake c	ost when m	= 120?		
							s.
		·					
		·					
				Ans : (a)		(1)	
				(b)		(2)	1
	in eac	into the room ar h row. As a resi chairs were thei	ult there were	e 12 more rov	ws than befor		
		-		Ans :		(3)	

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9. The figure below is made up of a rectangle and a circle. Q is the centre of the circle. The radius of the circle is 14 cm. QRST is a rectangle and RS = 34 cm. Use the calculator  $\pi$  to find the perimeter of the shaded part of the rectangle. Leave your answer correct to 2 decimal places.

Do not write in this space



Ans:

(3)

10. A van left Town A for Town B travelling at an average speed of 92 Do not write km/h for the first 30 minutes of the journey. Then the van drove another in this space 32 km at an average speed of 80 km/h before reaching Town B. What was the average speed of the van for the whole journey? Ans : (3)11. Cheryl, Dewi and Eli spent some money. The ratio of the amount of money Cheryl spent to the total amount of money Dewi and Eli spent was 3:4. Dewi spent  $\frac{2}{3}$  as much money as the total amount of money spent by Cheryl and Eli. Cheryl spent \$369 more than Eli. How much money did Dewi spend? Ans: (3)

12. Kris bought an equal number of apples, pears and lemons to make some pies for a charity sale. The prices of the fruits are shown below. The total amount she paid for the apples and lemons was \$66 more than the amount she paid for the pears. How much money did Kris pay altogether for the fruits she bought?







Apples 5 for \$4

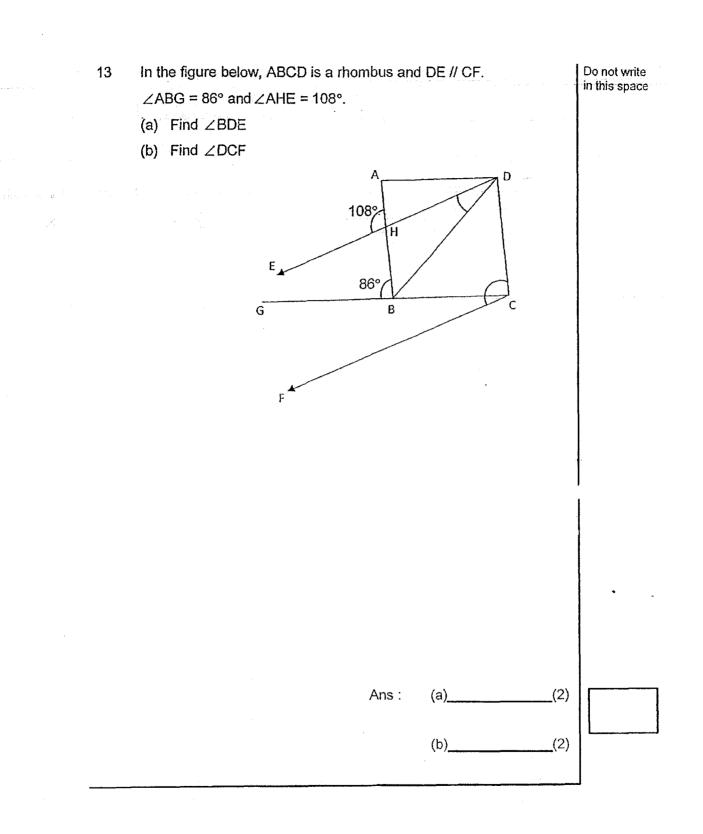
Pears 3 for \$2

Lemons 10 for \$6

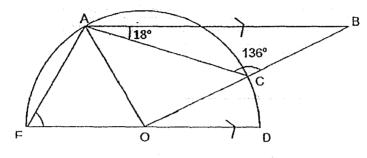
(4)

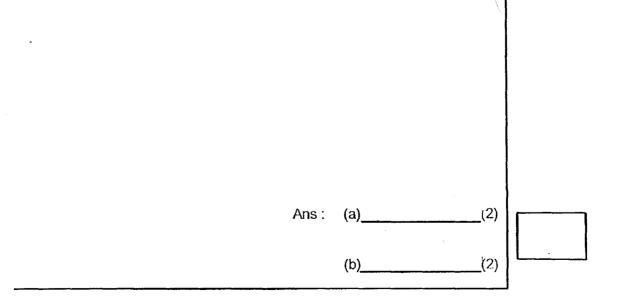
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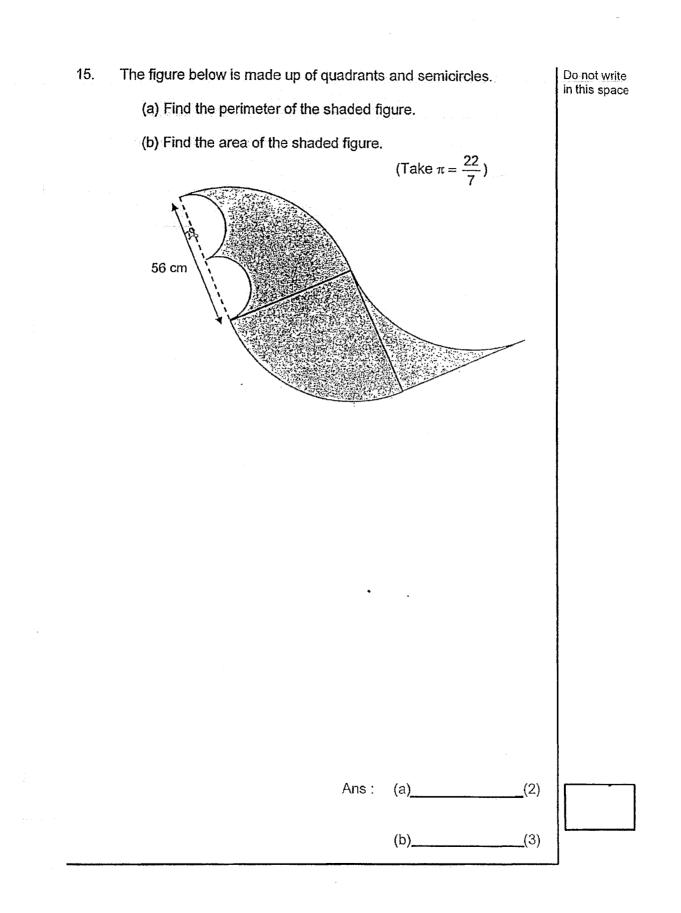
Ans :\_



- 14. The figure below shows a semicircle with centre O and three | Do not write triangles, ABC, ACO and AEO. AB is parallel to ED,  $\angle ACB = 136^{\circ}$  in this space and  $\angle BAC = 18^{\circ}$ .
  - (a) Find ∠COD.
  - (b) Find ∠AEO.







Solutions at https://www.sgtestpaper.com/

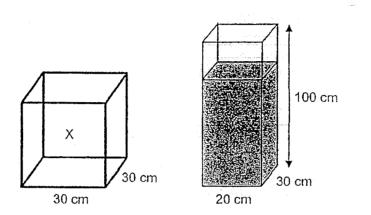
in this space

June and Kelvin have a collection of game cards. If June gives Kelvin | Do not write 16. half of her game cards, Kelvin will have 72 more game cards than June. If June gives Kelvin  $\frac{1}{6}$  of her game cards, she will have 16 fewer game cards than Kelvin. How many game cards do they have in all?

Ans:\_

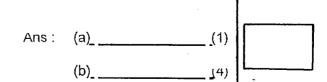
(5)

17. Grandma has 2 rectangular tanks, Tank X and Tank Y. Tank X is an empty container with a square base of sides 30 cm. Tank Y measures 20 cm by 30 cm by 100 cm. Tank Y was  $\frac{4}{5}$  filled with water at first.



Grandma then poured some water from Tank Y into Tank X until the height of the water in Tank X became 2 times the height of the water in Tank Y.

- (a) How much water was in Tank Y at first?
- (b) What was the height of the water in Tank X in the end?



- End of Paper 2 -

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Solutions at https://www.sgtestpaper.com/

# SCHOOL : RIVER VALLEY PRIMARY SCHOOL

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LEVEL : PRIMARY 6 SUBJECT : MATH

TERM : 2019 SA1

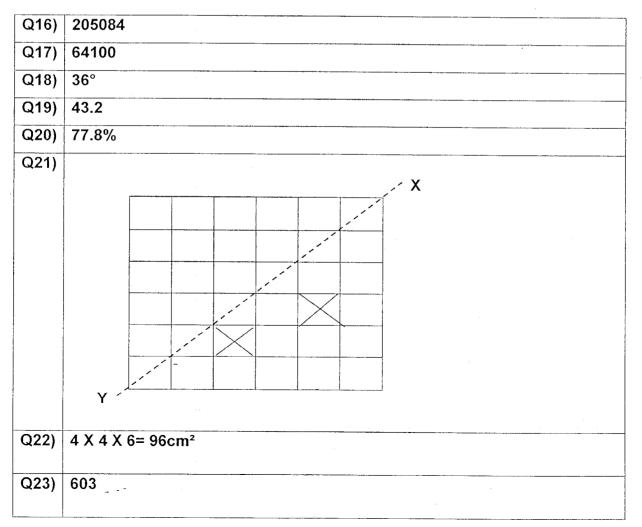
PAPER 1 BOOKLET A

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

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Q 11	Q12	Q13	Q14	Q15
1	4	3	1	4

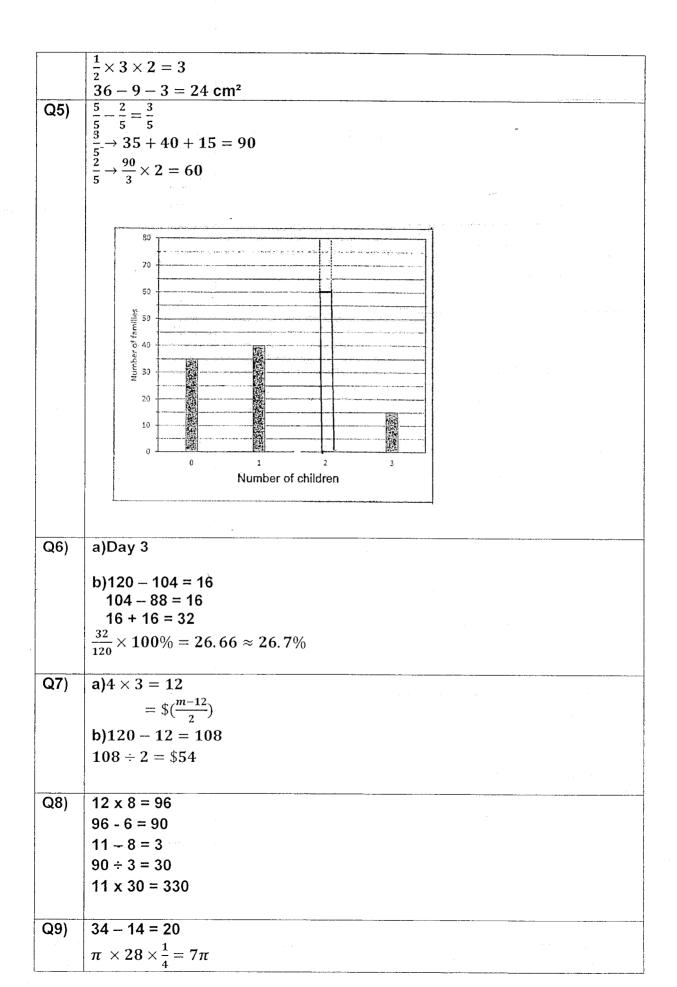
## PAPER 1 BOOKLET B



Q24)	11
Q25)	660
Q26)	72
Q27)	
Q28)	
Q29)	65°
Q30)	a)False b)True

# PAPER 2

Q1)	80% x 125 = 100 107% x 100 = \$107
Q2)	3U - 1U = 2U $2U \rightarrow 25 + 84 + 25 = 134$ $1U \rightarrow 134 \div 2 = 67$ 67 + 25 = 92
Q3)	9U - 8U = 1U $1U \rightarrow 15$ $17U \rightarrow 17 \times 15 = $255$
Q4)	$6 \times 6 = 36$ $\frac{1}{2} \times 6 \times 3 = 9$



	Q10)		· · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
		A 92km/h	201/00	—	
		92K11/11	32km		
		92km/h x <sup>1</sup> / <sub>2</sub> h= 46km			
		$32$ km ÷ 80km/h = $\frac{2}{5}$ h			
		<sup>5</sup> 46 + 32 = 78			
		78 ÷ $(\frac{2}{5} + \frac{1}{2})$ = 86.6km/h			
		$= 86\frac{2}{3}$ km/h			
-	Q11)	15u – 6u = 9u		<u></u>	
		9u→369			
		$14u \rightarrow \frac{369}{9}$ x 14 = \$574			
				<u> </u>	
	Q12)	72 + 60 + 54 = \$186			
	Q13)	$a) < AHE = < DHE = 10^{\circ}8$	<u> </u>		
		$ < \text{HBD} = (180^{\circ} - 86^{\circ}) \div 2 = 47^{\circ} $ $ < \text{BDE} = 180^{\circ} - 47^{\circ} - 108^{\circ} = 25^{\circ} $			
	::	< DDE = 100 - 47 - 100 - 25			
	::	b)180° – 86° – 72° = 22°			
		86° + 22° = 108°			
Ļ	Q14)	a) $< ABC = 180^{\circ} - 136^{\circ} - 18^{\circ} = 26^{\circ}$	<u> </u>	•	
		$< ABC = < COD = 26^{\circ}$			
		b) $< ACO = 180^{\circ} - 136^{\circ} = 44^{\circ}$			
		$< AOC = 180^{\circ} - 44^{\circ} - 44^{\circ} = 92^{\circ}$ $< AOE = 180^{\circ} - 92^{\circ} - 26^{\circ} = 62^{\circ}$			
		$< AEO = (180^\circ - 62^\circ) \div 2 = 59^\circ$ $< AEO = (180^\circ - 62^\circ) \div 2 = 59^\circ$			
		· · · · ·			
	Q15)			· · · ·	
		$\frac{22}{\frac{7}{22}} \times 112 \times \frac{1}{4} = 88$			
		$\frac{22}{7} \times 28 \times \frac{1}{2} \times 2 = 88$		*	
		$(88 \times 3) + 88 = 352$ 352 + 56 = 408cm			

	$\frac{22}{7} \times 14 \times 14 = 61$ $4928 - 616 = 43$ $(56 \times 56) - \left(\frac{22}{7} \times 4312 + 672 = 49\right)$	$12 \\ 56 \times 56 \times \frac{1}{4} = 672$		
Q16)	$\frac{J : K}{2U 72}$ $\frac{-1U +1U}{1U 1U +72}$ $4p + 16 = 72$ $4p = 72 - 16 = 56$ $1p = 56 \div 4 = 14$ $14 \times 10 = 140$ $140 + 16 = 156$	<u>Ј</u> 6р 1р 5р	<u>: K</u> 4p+16 <u>+1p</u> 5p+16	
Q17)	a) $\frac{4}{5} \times 20 \times 30 \times 100$ b) <u>Height</u> X 2u Y 1u 48000 ÷ 2400 = 2 20 × 2 = 40ct	$\frac{BA}{30 \times 30} = 900$ 20 x 30 = 600	<u>volume</u> 1800u <u>600u</u> 2400u	-

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Solutions at https://www.sgtestpaper.com/

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