RIVER VALLEY PRIMARY SCHOOL

SEMESTRAL ASSESSMENT 1

2017

MATHEMATICS

PRIMARY FIVE

Name: _____ _____ ( )

Class: Primary 5 (_____**)**

Date: 5 May 2017

Duration : 50 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 1	Booklet A	MCQ	1 – 15		20
	Booklet B	SAQ	16 – 30		20
Paper 2		SAQ	1 – 5		10
		LAQ	6 - 18		50
	Total				100

Parent's Signature :

Questions 16 to 25 carry 1 mark each. Write your answer in the space provided.
For questions that require units, give your answers in the units stated.
(10 marks)

16. Two million, four hundred and five thousand and thirty-seven, written in numeral is _____.

Do not write in this space

Ans : _____

17. Find the value of 90 ÷ 3 + (3 x 8 + 6).

Ans : _____

18. Mrs Selvi baked 358 tarts. She packed some of them into boxes of 8 each. If she had 142 tarts left, how many boxes of tarts did she pack?

Ans : _____

19. Express 46 ÷ 8 as a mixed number in its simplest form.

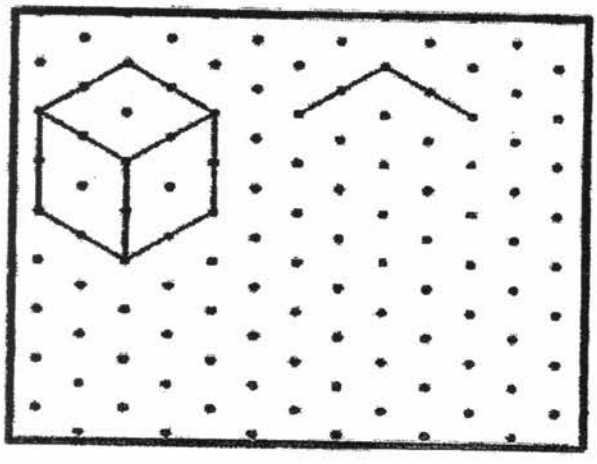
Ans : _____

20. What is the product of $\frac{2}{3}$ and 15?

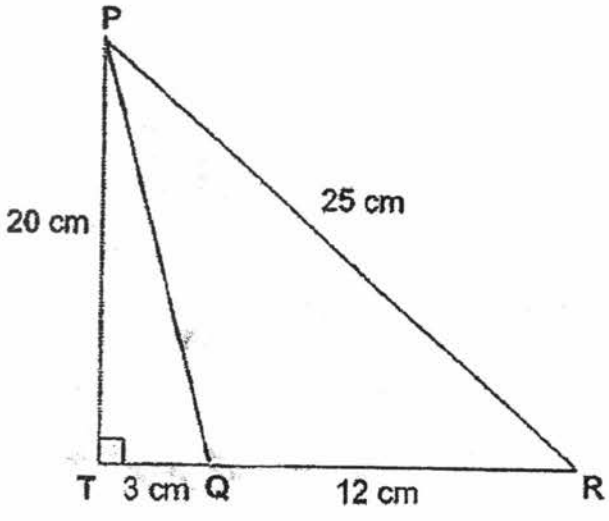
Do not write in this space

Ans : _____

21. Draw another cube similar to the cube shown below. The first two lines have been drawn for you.



22. Find the area of Triangle PQR.



Ans: _____ cm^2

23. The container below was empty at first. How much water is needed for the container to be half-filled with water?

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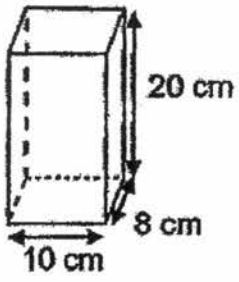
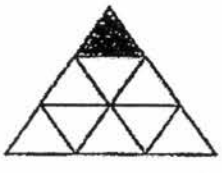


Ans : _____ cm^3

24. Mrs Teo used a mixture of lemon juice and water in the ratio of 2 : 3 to make 2 litres of lemonade. How much water did she use to make the lemonade?

Ans : _____ mℓ

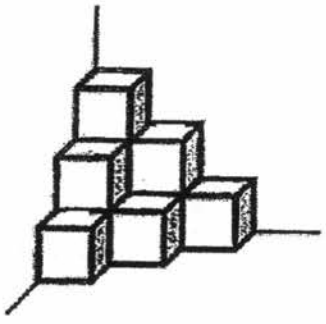
25. The figure below is made up of similar triangles. How many more triangles need to be shaded so that the ratio of the number of shaded triangles to the number of unshaded triangles becomes 1 : 2?



Ans : _____

Questions 26 to 30 carry 2 marks each. Show your working clearly in the spaces 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)

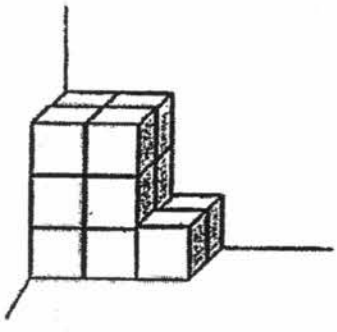
26. The figure below is made up of identical cubes of side 1 cm. What is the volume of the figure?



Do not write in this space

Ans : _____ cm^3

27. The unit cubes below are glued together. How many more of such unit cubes are needed to form the smallest cube?



Ans : _____

28. Peter and James shared the cost of renting a bicycle. Peter paid \$14 more than $\frac{1}{5}$ of the cost for rental. James paid the remaining \$10. How much was the total rental for the bicycle?

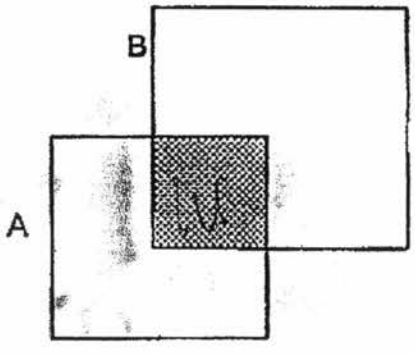
Do not write in this space

Ans : \$_____

29. For every 6 pens that Tom paid for, he would get another pen free. How many pens did Tom pay for if he had a total of 84 pens in the end?

Ans : _____

30. The figure below shows 2 squares, A and B. $\frac{1}{4}$ of A and $\frac{1}{5}$ of B are shaded. What fraction of the figure is shaded?



Ans : _____

- End of Booklet B -

RIVER VALLEY PRIMARY SCHOOL

SEMESTRAL ASSESSMENT 1

2017

MATHEMATICS

PRIMARY FIVE

Name: _____ _____ ( )

Class: Primary 5 (_____)

Date: 5 May 2017

Duration : 1 h 40 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 **allowed** to use a calculator.

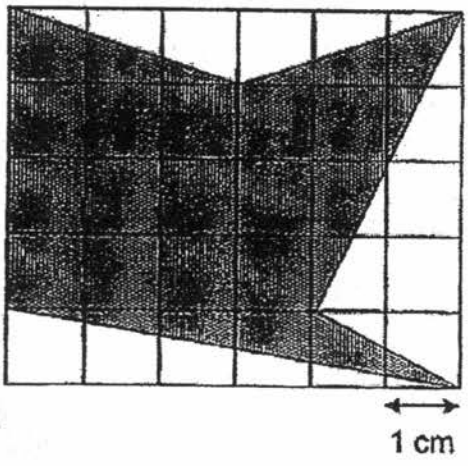
Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

1. In a spelling competition, Jerry had to spell 20 different words. For every correctly spelt word, he was awarded 3 points but for every wrongly spelt word, no point was awarded. He was awarded 36 points at the end of the competition. How many words did he spell wrongly?

Do not write in this space

Ans : _____

2. The figure below is made up of 1-cm squares. What is the area of the shaded part of the figure?



Ans : _____ cm^2

3. Ibrahim and Jacky had an equal number of stamps at first. After Ibrahim gave away 20 stamps and Jacky bought 32 stamps, Jacky had three times as many stamps as Ibrahim. How many stamps had Ibrahim at first?

Do not write in this space

Ans : _____

4. Terence spent some money on a bag and $\frac{1}{3}$ of the remainder on a pencil case. He then had $48 left. What was the cost of the pencil case?

Ans : $_____

5. Jason bought 3 identical notebooks with $\frac{3}{5}$ of his money. He could buy 1 more such notebook and 20 identical erasers with the remaining amount of his money. How many erasers could he have bought with all the money he had at first?

Ans : _____

For questions 6 to 18, 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. (50 marks)

6. Boon Teck brought 140 chicken wings to his class party. There was an equal number of boys and girls in the class. Each boy ate 4 chicken wings and each girl ate 3 chicken wings. At the end of the party there were 21 chicken wings left. How many students were at the class party?

Do not write in this space

Ans : _____(3m)

7. Mrs Tan made some chocolate and strawberry cookies in the ratio 5 : 3. She packed all of them into 6 bags. There were 5 strawberry cookies in each bag. After packing the chocolate cookies equally into each bag, there were 8 chocolate cookies left unpacked. How many chocolate cookies were packed into each bag?

Ans : _____(3m)

8. Figure 1 shows a rectangular piece of paper ABCD. It is folded along CE. CD = 6 cm and BC = 8 cm. Tom cuts the paper along CE. Figure 2 shows the remaining paper after Triangle CEF is cut off. What is the area of Figure 2?

Do not write in this space

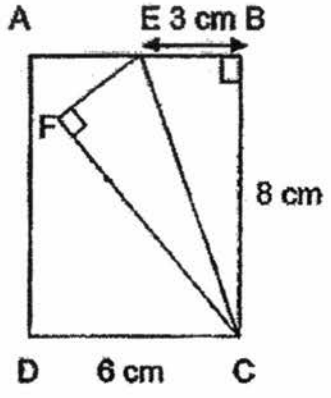


Figure 1

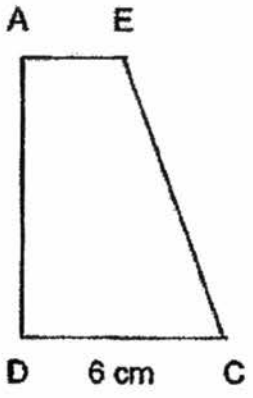


Figure 2

Ans: _____(3m)

9. At an exhibition, $\frac{2}{5}$ of the people were children. The remaining people were men and women in the ratio of 5 : 4. If there were 70 more children than women, how many people were there at the exhibition?

Do not write in this space

Ans: _____(3m)

10. Terry read $\frac{1}{5}$ of the number of pages in a book in the first hour, $\frac{3}{8}$ of the remaining pages in the second hour. After that, he still had 45 more pages to read. How many pages are there in the book?

Ans: _____(3m)

11. Jane received $3 more pocket money than Gary daily. Each of them spent $15 a day on food and saved the rest of their pocket money. After Jane had saved $72, Gary had only saved $48. What was Gary's pocket money each day?

Do not write in this space

Ans: _____(4m)

12. Ben had $\frac{5}{12}$ as much money as Carl. Carl had 3 times as much money as Dan. After Carl gave a total of $240 to Ben and Dan, all of them had an equal amount of money.

(a) What was the ratio of Ben's money to Carl's money to Dan's money at first?
(b) How much more money did Dan receive from Carl than Ben?

Ans :(a) _____(1m)

(b) _____(3m)

13. Mr Tan saved $\frac{1}{3}$ of his lucky draw money and gave $\frac{1}{3}$ of the remaining money to his wife. He gave the rest of the money to his son, Johan and 2 daughters, Kimberly and Linda, in the ratio 7 : 5 : 3. Then Kimberly decided to give $240 to Linda so that both sisters would have the same amount of money.

(a) How much money did his 3 children receive altogether?

(b) How much was Mr Tan's lucky draw money?

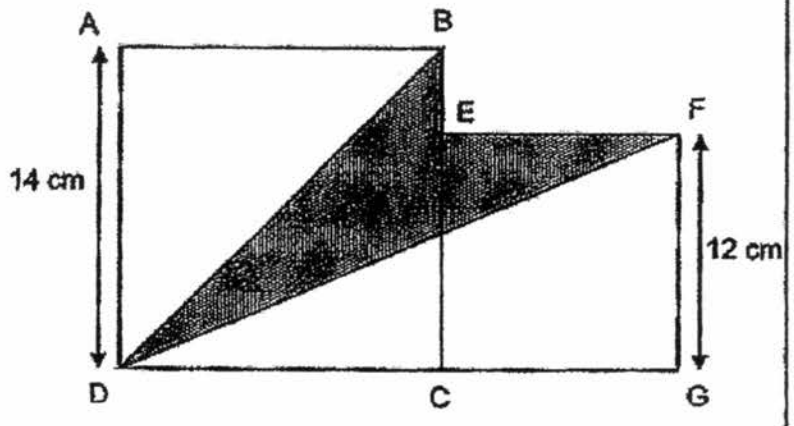
Do not write in this space

Ans :(a) _____(1m)

(b) _____(3m)

14. The figure below, not drawn to scale, is formed by two squares of sides 14 cm and 12 cm respectively. Find the area of the shaded part.

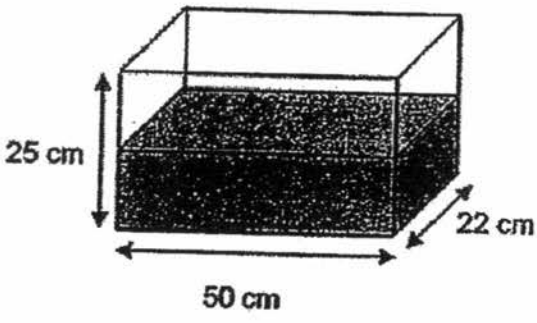
Do not write in this space



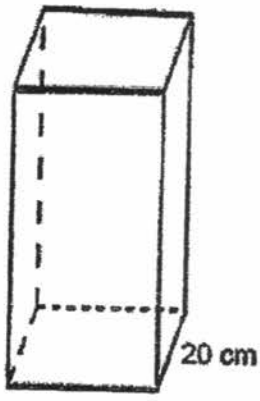
Ans : _____(4m)

15. A rectangular tank A measuring 50 cm by 22 cm by 25 cm was half filled with water at first. Then Peter poured some more water into Tank A till it was full.

Do not write in this space



Tank A



Container B

(a) How many litres of water did Peter pour into the tank? (Take $1\ell = 1000\ cm^3$)

(b) Peter then poured all the water from Tank A into Container B. What was the height of the water in Container B?

Ans :(a) _____(2m)

(b) _____(2m)

16. John, Mike and Carol were given some concert tickets to sell. Each ticket cost $5. John sold $\frac{3}{5}$ of the tickets. The number of tickets Carol sold was $\frac{1}{3}$ of that sold by Mike. John sold 35 tickets more than Carol.

(a) How many tickets did they sell altogether?

(b) How much was the total amount of money collected from the sale?

Do not write in this space

Ans :(a) _____ (3m)

(b) _____ (2m)

17. There are some $5 and $2 notes in Alicia's purse. The total value of all the notes is $208. There are 8 more $5 notes than $2 notes in the purse.

Do not write in this space

(a) What is the value of the $5 notes?

(b) Alicia gives 6 of the $2 notes to her brother. What is the value of the remaining $2 notes in her purse?

Ans :(a) _____ (3m)

(b) _____ (2m)

18. The librarian spent $1888 buying books for the school library during the promotion as shown below. How many books did she buy altogether?

Do not write in this space

Books
At $16 each

PROMOTION
Buy any 18 books
and
get the 19th and 20th books at half price each

Ans : _____(5m)

– End of Paper 2 –

SCHOOL : RIVER VALLEY PRIMARY SCHOOL

LEVEL : PRIMARY 5
SUBJECT : MATH
TERM : 2017 SA1

PAPER 1 BOOKLET A

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

Q 11	Q12	Q13	Q14	Q15
3	3	2	3	4

PAPER 1 BOOKLET B

Q16)	2405037
Q17)	60
Q18)	27
Q19)	5 ¾
Q20)	10
Q21)	-
Q22)	½ x 12 x 20 = 120
Q23)	800
Q24)	1200
Q25)	2
Q26)	10
Q27)	3 x 3 = 9 9 + 4 = 13
Q28)	30
Q29)	84 ÷ 7 = 12 6 x 12 = 72
Q30)	4 + 1 + 3 = 8

PAPER 2

Q1)	36 ÷ 3 = 12 20 – 12 = 8

Q2) Area of figure → 6 cm x 3 cm = 30 cm^2
Area of unshaded → (½ x 6 x 1 + ½ x 6 x 1 + ½ x 2 x 5) cm2 = 11 cm^2
Area of shaded → 30 cm^2 – 11 cm^2 = **19 cm^2**

Q3) 3 – 1 = 2
2 unit → 20 + 32 = 52
1 unit → 52 ÷ 2 = 26
26 + 20 = **46**

Q4) 2 units → 48
1 unit → 48 ÷ 2 = **24**

Q5) 5 x 20 = **100**

Q6) 1 set = 4 + 3 = 7
119 ÷ 7 = 17
17 x 4 = **34**

Q7) 5 x 6 = 30
3 units → 30
1 unit → 10
5 units → 10 x 5 = 50
50 – 8 = 42
42 ÷ 6 = **7**

Q8) Area of fig 1→ 6 cm x 8 cm = 48 cm^2
Area of triangle FEC → (½ x 8 x 3) = 12 cm^2
48 – 12 = **36 cm^2**

Q9) C : M : W
2 : (3)
6 : (9)
6 : 5 : 4
2 units → 70
1 unit → 35
15 units → 35 x 15 = **525**

Q10) 5 units → 45
1 unit → 45 ÷ 5 = 9
10 units → 9 x 10 = **90**

Q11) 72 – 48 = 24
24 ÷ 3 = 8
48 ÷ 8 = 6
6 + 15 = **21**

Q12) (a) 12 ÷ 3 = 4
3 + 2 = 5
B : C : D
5 : 12 : 4 (Ans)

(b) 7 : 7 : 7
5 units → $240
1 unit → $240 ÷ 5 = **$48**

Q13) (a) 1 unit → $240
15 units → 15 x $240 = $3600
(b) 4 units → $3600
1 unit → $3600 ÷ 4 = $900
9 units → 9 x $900 = **$8100**

Q14) 14 x 14 = 196
12 x 12 = 144
196 + 144 = 340
Area of ABD → ½ x 14 x 14 = 98
14 + 12 = 26
Area of DGF → ½ x 26 x 12 = 156
156 + 98 = 254
340 – 254 = 86 **(Ans : 86 cm^2)**

Q15) (a) 50 x 22 x 25 = 27500
27500 ÷ 2 = 13750
13750 cm^3 = **13 litre 750 ml**

(b) 25 x 20 = 500
13750 x 2 = 27500
27500 ÷ 500 = 55 **(Ans : 55 cm)**

Q16) (a) 6 – 1 = 5
5 units → 35
1unit → 7
10 units → 7 x 10 = **70**

(b) 70 x $5 = **$350**

Q17) (a) 45 + 2 = 47
208 – 47 = 161
5 + 2 = 7
161 ÷ 7 = 23
23 + 9 = 32
32 x $5 = **$160**

(b) 23 – 6 = 17
17 + 1 = 18
18 x $2 = **$36**

Q18) (18 x 16) + 8 + 8 = 304
1888 ÷ 304 =6 sets R 64
64 ÷ 16 = 4
6 x 20 + 4 = **124**