RIVER VALLEY PRIMARY SCHOOL

CONTINUAL ASSESSMENT 1

2019

MATHEMATICS

PRIMARY SIX

Name : _____ ( )

Class : Primary 6 (_____)

Date : 1 March 2019

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.

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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. There were 854 973 visitors to the Universal Studio last year. Express this number to the nearest thousand.

(1) 854 000

(2) 850 000

(3) 855 000

(4) 860 000

2. Find the value of $\frac{3}{4} \div \frac{6}{7}$

(1) $\frac{9}{14}$

(2) $\frac{7}{8}$

(3) $1\frac{1}{7}$

(4) $1\frac{5}{9}$

3. Express 1.7 as a percentage.

(1) 0.017 %

(2) 0.17 %

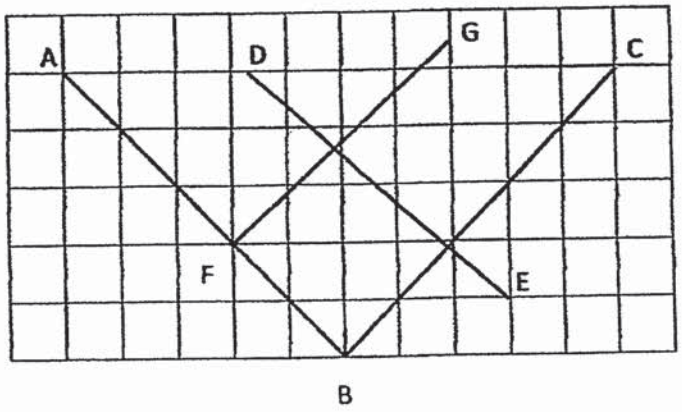
(3) 17 %

(4) 170 %

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4. Which two lines in the square grid below are perpendicular to each other?



(1) BC and FG

(2) BC and DE

(3) AB and BC

(4) AB and FG

5. Arrange the following distances from the shortest to the longest.

$6\frac{2}{3}$ km	6 km 66 m	6.6 km

	Shortest		Longest
(1)	6 km 66 m	$6\frac{2}{3}$ km	6.6 km
(2)	6 km 66 m	6.6 km	$6\frac{2}{3}$ km
(3)	$6\frac{2}{3}$ km	6.6 km	6 km 66 m
(4)	6.6 km	6 km 66 m	$6\frac{2}{3}$ km

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6. Which of the following is most likely to be the mass of a can of coke?

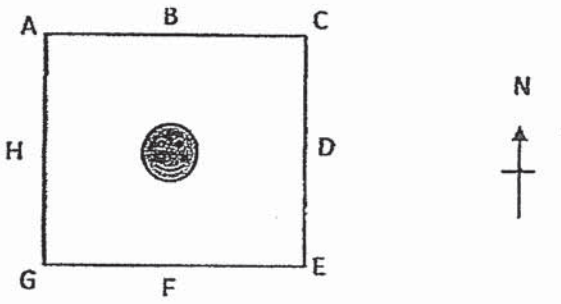
(1) 350 g

(2) 350 kg

(3) 35 g

(4) 35 kg

7. The figure below shows Nuruh standing in a square field. She was facing South at first. She then turned anti-clockwise to face Point A of the field. How many degrees did she turn in the anti-clockwise direction?



(1) 135 °

(2) 180 °

(3) 225 °

(4) 270 °

8. Find the value of $\frac{8+p}{2} + p$ when $p = 4$.

(1) 6

(2) 8

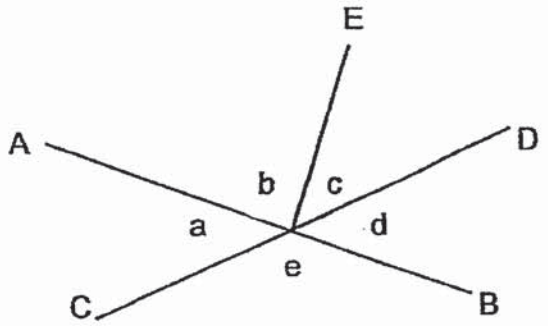
(3) 10

(4) 20

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9. In the figure, AB and CD are straight lines. Which one of the following statements is true?



(1) $\angle a = \angle c$

(2) $\angle e = \angle b$

(3) $\angle a = \angle c + \angle d$

(4) $\angle e = \angle b + \angle c$

10. Alan has a weekly allowance of $y. He saves $5 and spends the rest of his allowance in 6 days. What is the average amount of money he spends a day? Leave your answer in terms of y.

(1) $\$(\frac{5-y}{6})$

(2) $\$(\frac{y-5}{6})$

(3) $\$(\frac{y+5}{6})$

(4) $\$(\frac{y-6}{5})$

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11. The table below shows the charges for renting a bicycle on a weekend.

Renting Charges Per Bicycle	
For the first hour	$8.00
For every additional hour	$6.00
Rent 3 hours and get the next 1 hour free	

Mr Lim rented two bicycles from 1100 to 1500 on Sunday. How much did he pay altogether for renting the bicycles?

(1) $20

(2) $26

(3) $40

(4) $52

12. A square piece of paper was folded along the dotted line as shown below. Find ∠h.



(1) 20°

(2) 30°

(3) 50°

(4) 70°

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13. The price of a concert ticket was \$120. There was an early bird discount of 25% and students were given a further discount of \$12. How much did one early bird discount student's ticket cost?

(1) \$78

(2) \$81

(3) \$90

(4) \$108

14. There were some boys and girls in the school hall. An equal number of boys and girls wear spectacles. $\frac{1}{2}$ of the girls and $\frac{4}{7}$ of the boys **do not** wear spectacles. What fraction of the children wears spectacles?

(1) $\frac{7}{15}$

(2) $\frac{8}{15}$

(3) $\frac{6}{13}$

(4) $\frac{7}{13}$

15. Leticia had two square boxes of different sizes. Each side of the bigger box is 2 times as long as each side of the smaller box. Leticia can pack exactly 64 1-cm cubes into the smaller box. How many 1-cm cubes can she pack exactly into the bigger box?

(1) 128

(2) 192

(3) 256

(4) 512

- End of Booklet A -

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RIVER VALLEY PRIMARY SCHOOL

CONTINUAL ASSESSMENT 1

2019

MATHEMATICS

PRIMARY SIX

Name : _____ ( )

Class : Primary 6 (_____)

Date : 1 March 2019

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

Parent's Signature :

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Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (5 marks)

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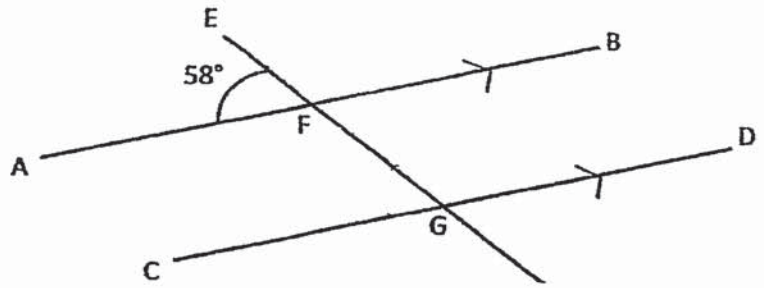
16. Find $\frac{3}{5} \div 15$. Leave your answer in the simplest form.

Ans: _____

17. Find the average of 14, 25 and 36.

Ans: _____

18. In the figure below, AB and CD are parallel lines and $\angle AFE = 58°$. Find $\angle FGD$.



Ans: _____ ____°

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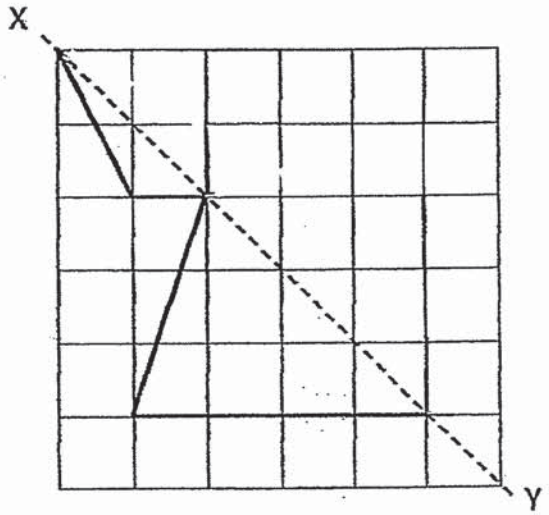
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19. Express $\frac{3}{8}$ as a decimal.

Ans: _____

20 Complete the symmetric figure below with XY as the line of symmetry.



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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)

Do not write in this space

21. The average of a set of three different 2-digit numbers is 32. Find the largest possible number in the set.

Ans: _____

22. Pansy baked some cookies. If she gives each of her friends 6 cookies she will have no remainder. If she gives each of them 4 cookies instead, she will have 24 cookies left. How many cookies did Pansy bake?

Ans _____

23. It takes 90 minutes to fill a container completely with water. What fraction of the container will be filled with water in 1 hour? Give your answer in the simplest form.

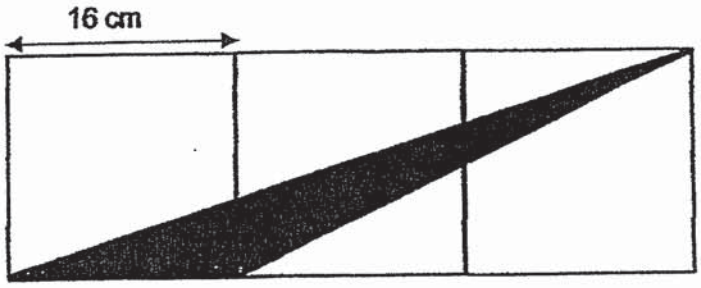
Ans: _____

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24. The figure below is made up of 3 similar squares, each of side 16 cm. What is the area of the shaded triangle?

Do not write in this space



Ans: _____ cm^2

25. A box contains beads of three different colours. $\frac{2}{5}$ of them are blue. The ratio of the number of green beads to that of the red beads is 4 : 3. What is the ratio of the number of blue beads to the number of red beads?

Ans: _____

26. Ali had 3 times as much money as Nathan at first. After Ali spent $30 and Nathan received $48 from his mother, both boys had the same amount of money. How much money did Nathan have in the end?

Ans: $ _____

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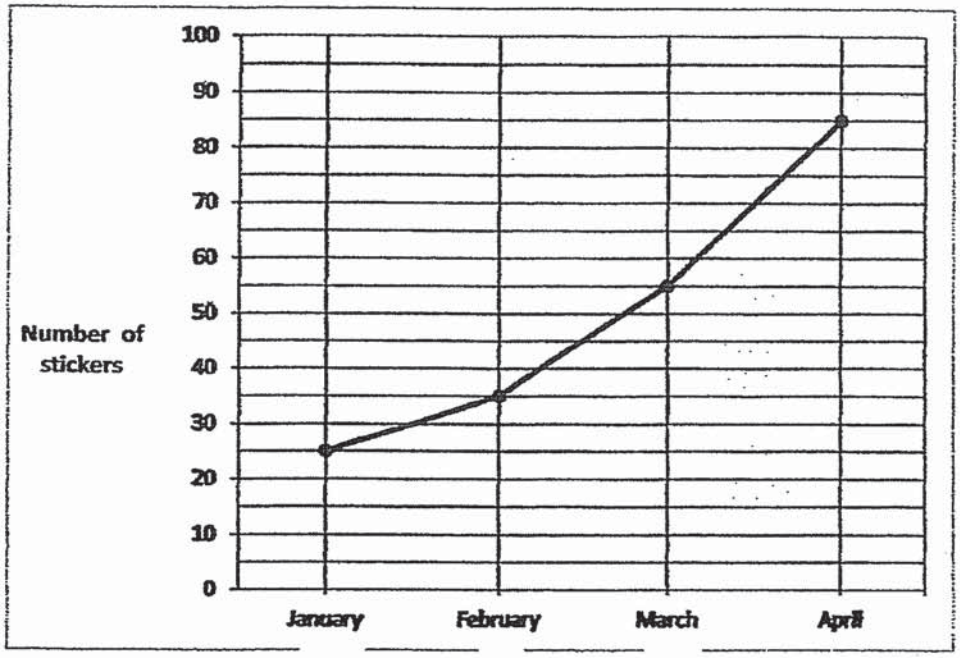
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27. The ratio of the length to the breadth of a rectangle is 8 : 3. What fraction of the perimeter of the rectangle is the length of the rectangle? Give your answer in the simplest form.

Do not write in this space

Ans: _____

28. The line graph below shows the number of stickers Hilary has at the beginning of each month from January to April.



What was Hilary's average increase in the number of stickers per month from January to April?

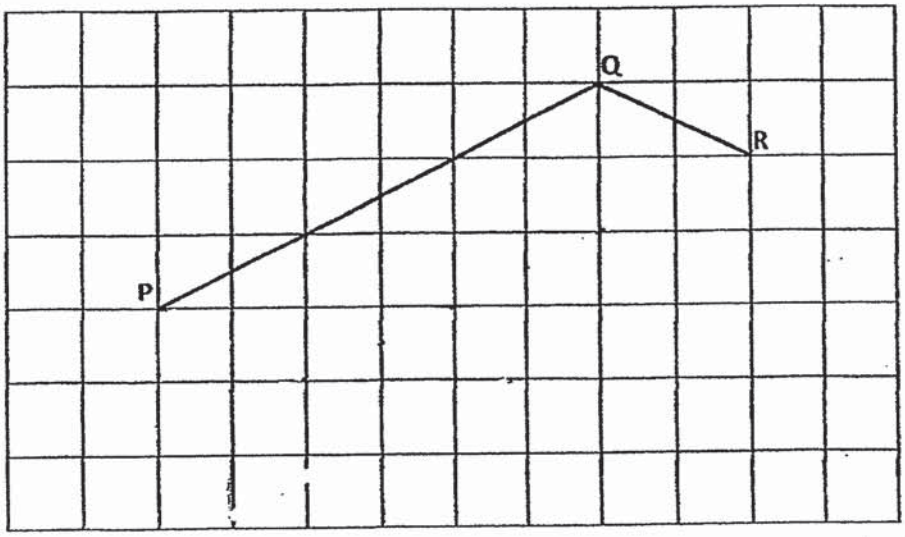
Ans: _____

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29. In the square grid below, PQ and QR form two sides of the parallelogram PQRS. Complete the drawing of the parallelogram PQRS.

Do not write in this space



30. A number has 15 as a factor.

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

Statement	True	False	Not possible to tell
a) The number is a multiple of 3.			
b) The number is an even number.			

- End of Booklet B -

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RIVER VALLEY PRIMARY SCHOOL

CONTINUAL ASSESSMENT 1

2019

MATHEMATICS

PRIMARY SIX

Name : _____ ( )

Class : Primary 6 (_____)

Date : 1 March 2019

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 **allowed** to use a calculator.

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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)

Do not write in this space

1. The Primary 6 teachers and pupils from Everest Primary School went on a learning journey. For every 38 pupils, there were 2 teachers with them. There were 216 more pupils than teachers. How many pupils went on the learning journey?

Ans : _____

2. There were 32 cars and 3y motorcycles in a carpark.

(a) How many wheels are there altogether? Give your answer in terms of y.

(b) If y = 8, how many wheels are there altogether?

Ans : (a) _____

(b) _____

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3. The average temperature in January 2018 was 28°C. The average temperature in February 2018 was 32°C. Find the percentage increase in the average temperature of the two months. Give your answer to the nearest two decimal places.

Do not write in this space

Ans : _____ %

4. Four friends shared the cost of a birthday gift equally. When calculating the amount for each share, one of the friends made a mistake by dividing the cost of the gift by 3 instead of 4. Each friend ended up paying $2.80 more than the correct share. What should be the correct amount of each share?

Ans : $ _____

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5. At a fruit stall, 1 watermelon and 5 apples cost $10. Elsa paid $14.90 for 1 watermelon and 12 apples. How much did one apple cost?

Do not write in this space

Ans: $_____

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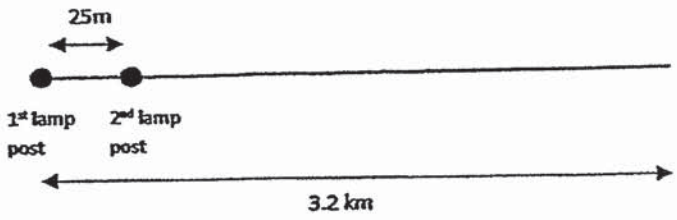
For questions 6 to 17, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets[ ] at the end of each question or part-question.
(45 marks)

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6. Leslie spent \$750 of his monthly salary on food. He spent $\frac{3}{7}$ of his remaining salary on transport. After that, he had $\frac{1}{3}$ of his salary left. How much of his salary did he spend on transport?

Ans: _____ (3m)

7. Lamp posts were installed along a new stretch of straight road. There was a distance of 25 m between every two lamp posts. Each lamp post cost \$55. How much did it cost to install all the lamp posts on a stretch of road measuring 3.2 km?



Ans: _____ (3m)

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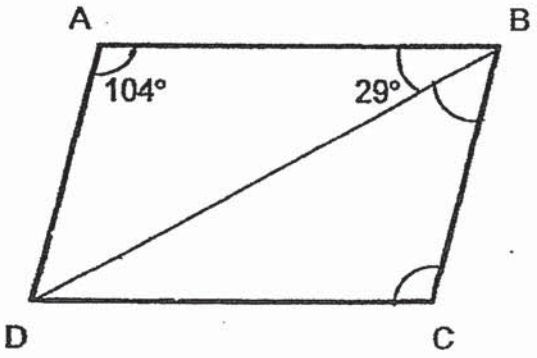
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8. In the figure, ABCD is a parallelogram. $\angle BAD = 104°$ and $\angle ABD = 29°$.

Do not write in this space

Find (a) $\angle BCD$

(b) $\angle CBD$



Ans: (a) _____ (1m)

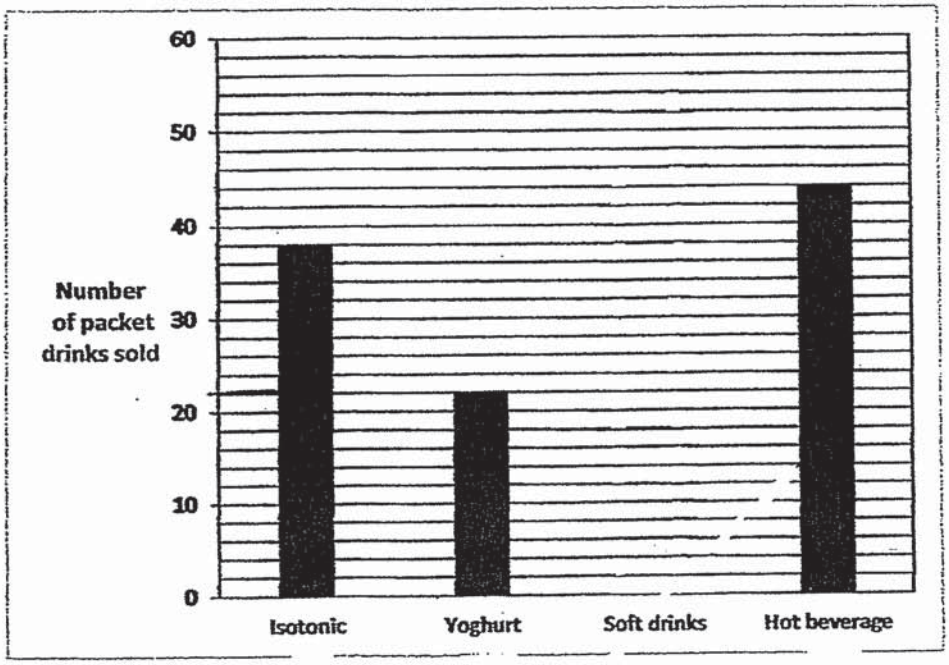
(b) _____ (2m)

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9. The bar graph below shows the number of packet drinks sold on Monday. The bar that shows the number of soft drinks sold has not been drawn.

Do not write in this space



(a) How many more packets of hot beverage were sold than Isotonic drink?

(b) 35% of all the drinks sold were soft drinks. In the graph above, draw the bar to show the number of packets of soft drinks sold.

Ans: (a)_____ (1m)

(2m)

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10. Mrs Leong needs to tie 160 parcels with string. Each parcel requires 40 cm of string. The string is sold in rolls of 15 m each. What is the least number of rolls of string that Mrs Leong needs to buy to tie 160 parcels?

Do not write in this space

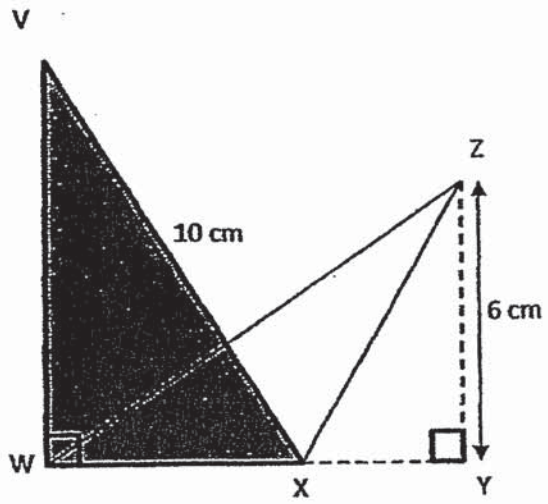
Ans : _____(3m)

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11. The figure VWXZ below is not drawn to scale. YZ = 6 cm and VX = 10 cm. YZ = $\frac{3}{4}$ of VW. The area of Triangle WXZ is 18 cm². Find the area of the **shaded** Triangle VWX.

Do not write in this space



Ans : _____ (4m)

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12. A container was filled with $\frac{7}{8}\ell$ of water at first. $\frac{1}{12}\ell$ of the water was used and the remaining water was poured into bottles, each with a capacity of $\frac{1}{6}\ell$.

Do not write in this space

(a) How many such bottles were filled **at most**?

(b) How much water was left? Give your answer as a fraction in its simplest form.

Ans: (a) _____ (2m)

(b) _____ (2m)

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13. Mr Bond earns a commission of $2 500 for every car he sold. For every 10 cars sold, he received an additional bonus of $3 000. In the first 6 months of 2018, he earned a total of $127 000. How many cars did Mr Bond sell in the first 6 months of 2018?

Do not write in this space

Ans : _____ (4m)

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14. Weiling took part in a Mathematics quiz which consist of 60 questions. For every correct answer, 3 marks would be awarded. For every wrong answer, 2 marks would be deducted. Weiling answered all the questions and scored a total of 140 marks for the quiz. How many questions did she answer correctly?

Do not write in this space

Ans : _____(4m)

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15. Siti had \$285 more than Bala at first. After Siti spent $\frac{1}{3}$ of her money and Bala spent $\frac{3}{4}$ of his money, the amount of money that Siti had left was \$330 more than the amount that Bala had left. How much money did Bala have at first?

Do not write in this space

Ans : _____ (4m)

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16. The usual price of a coffee machine sold in store A was $144. This was 96% of the usual price of an identical coffee machine sold in Store B. Both stores gave the same percentage discount on a coffee machine during a sale. During the sale, the coffee machine in Store B cost $112.50 after the discount.

Do not write in this space

(a) What was the usual price of the coffee machine in Store B?

(b) What was the discount given for the coffee machine in Store A during the sale?

Ans : (a) _____ (2m)

(b) _____ (3m)

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17. Sally and Bernice were baking cookies for sale. $\frac{1}{3}$ of Sally's cookies was 16 more than $\frac{1}{4}$ of Bernice's cookies. The next day, Sally baked more cookies and her total number of cookies increased by $\frac{1}{3}$. Bernice's family ate $\frac{1}{2}$ of the cookies that Bernice baked. In the end, Sally had 82 more cookies than Bernice. How many cookies did both girls have altogether in the end?

Do not write In this space

Ans : _____ (5m)

- End of Paper 2 -

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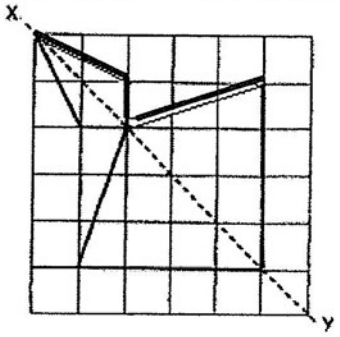
SCHOOL : RIVER VALLEY PRIMARY SCHOOL
LEVEL : PRIMARY 6
SUBJECT : MATH
TERM : 2019 CA1

PAPER 1 BOOKLET A

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

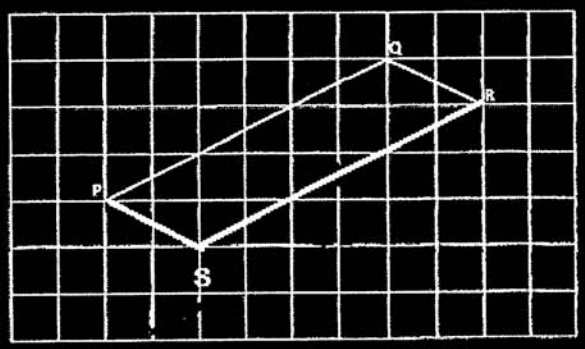
Q 11	Q12	Q13	Q14	Q15
3	1	1	3	4

PAPER 1 BOOKLET B

Q16)	$\frac{3}{5} \div \frac{15}{1} = \frac{3}{5} \times \frac{1}{15} = \frac{1}{25}$
Q17)	14 + 25 = 39 39 + 36 = 75 75 ÷ 3 = 25
Q18)	$< EFB = 180° - 58° = 122°$ $< BFG = 180° - 122° = 58°$ $< BFG = FGC = 58°$ $< FGD = 180° - 58° = 122°$
Q19)	$\frac{3 \times 125}{8 \times 125} = \frac{375}{1000} = 0.375$
Q20)	

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Q21)	32 x 3 = 96 10 + 11 = 21 96 – 21 = 75
Q22)	12 x 6 = 72
Q23)	$\div 3$ { 90min → $\frac{3}{3}$; 30min → $\frac{1}{3}c$; $\times 2$ 60min → $\frac{2}{3}c$
Q24)	$\frac{1}{2} \times 16 \times 16 = 128cm^2$
Q25)	B : G : R X7 2 : (3u) 4 : 3x3 14 : 12 : 9 Ans : 14 : 9
Q26)	2u → 48 + 30 = 78 1u → 78 ÷ 2 = 39 39 + 48 = $87
Q27)	L : B : T 8 : 3 : 11 x2 $\frac{8 \div 2}{22 \div 2} = \frac{4}{11}$
Q28)	85 – 25 = 60 60 ÷ 3 = 20
Q29)	
Q30)	a)True b)Not possible to tell

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PAPER 2

Q1)	38 – 2 = 36 216 ÷ 36 = 6 38 x 6 = 228
Q2)	a)cars → $32 \times 4 = 128$ motor c → $3y \times 2 = 6y$ 128 + 6y b)128 + (6 X 8) = 128 + 48 = 176
Q3)	32 – 28 = 4 $\frac{4}{28} \times 100 \approx 14.29\%$
Q4)	2.80 X 4 = 11.20 1u→ 11.20 3u→ $11.20 \times 3 = 33.60$ 33.60 ÷ 4 = $8.40
Q5)	1w + 5a → $10 1w + 12a → $14.90 7a→ 14.90 – 10 = 4.90 1a → 4.90 ÷ 7 = $0.70
Q6)	$\frac{3}{3} - \frac{1}{3} = \frac{2}{3}$ X2 4u → $\frac{1}{3}$ 8u → $\frac{2}{3}$ 8u – 3u = 5u 5u → 750 1u → 750 ÷ 5 = 150 150 x 3 = $450
Q7)	3.2km = 3200m 3200m ÷ 25m = 128m 128 + 1 = 129 129 x 55 = $7095
Q8)	a)$< BAD = BCD = 104°$ b)$< ADB = 180° - 104° - 29° = 47°$ $< ADC = 47° + 29° = 76°$ $< CBD = 76° - 29° = 47°$
Q9)	a)44 – 38 = 6 b)100% - 35% = 65% 38 + 22 + 44 =104 65% → 104 35% → $\frac{104}{65} \times 35 = 56$

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Q10)	1500 ÷ 40 = 37.5 1 roll has 37 pieces 160 ÷ 37 = 4R12 4 + 1 = 5
Q11)	3u → 6 4u → $\frac{6}{3} \times 4 = 8$ $\frac{1}{2} \times 18 = 9$ $\frac{1}{2} \times 6 \times 3 = 9$ $\frac{1}{2} \times 8 \times 6 = 24cm^2$
Q12)	a) $\frac{7}{8} - \frac{1}{12} = \frac{19}{24}$ $\frac{19}{24} \div \frac{1}{6} = \frac{19}{24} \times \frac{1}{6} = \frac{114}{24}$ $= \frac{19}{4} = 4\frac{3}{4}$ Ans : 4 b) $\frac{3}{4} \times \frac{1}{6} = \frac{1}{8}l$
Q13)	1 car → 2500 10 cars → 2500 x 10 = 25000 25000 + 3000 = 28000 127000 ÷ 28000 = 4R $15000 4 x 10 = 40 15000 ÷ 2500 = 6 40 + 6 = 46
Q14)	52
Q15)	$\frac{1}{3} = \frac{4}{12}$ $\frac{3}{4} = \frac{9}{12}$ $\frac{1}{3} \times 285 = 95$ 285 – 95 = 190 8u + 190 = 3u + 330 8u – 3u = 330 – 190 5u = 140 1u = 140 ÷ 5 = 28 12u = 12 x 28 = $336
Q16)	a) Store A 100% → 144 Store B 96% → 144 100% → $\frac{144}{96} \times 100$ Ans : $150

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	b) Store A 100% → 144 25% → $\frac{144}{100} \times 25$ Ans = $36	Store B 100% → 150 150 – 112.50 = 37.50 25% → 150 ÷ 4 = 37.50 75% → 37.50 x 3 = 112.50 100% - 75% = 25% (discount)
Q17)	$\frac{3}{3} \rightarrow 3u + 48$ (S) $\frac{1}{3} \rightarrow 1u + 16(Increased)$ 3u + 48 + 1u + 16 = 4u + 64 $\frac{1}{2} \times 4 = 2u$ (B left)	4u + 64 – 2u = 2u + 64 2u + 64 → 82 2u → 82 – 64 = 18 6u → $\frac{18}{2} \times 6 = 54$ 54 + 64 = 118

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