



# RED SWASTIKA SCHOOL

*Continual*  
2014-~~SEMESTRAL~~ ASSESSMENT <sup>2</sup>/<sub>1</sub>

## MATHEMATICS PAPER 1

Name : \_\_\_\_\_ (     )

Class : Primary 5 / \_\_\_\_\_

Date : 22 August 2014

### BOOKLET A

15 Questions

20 Marks

Duration of Paper 1 (Booklets A & B): 50 minutes

#### Note:

1. Do not open this Booklet until you are told to do so.
2. Read carefully the instructions given at the beginning of each part of the Booklet.
3. Do not waste time. If a question is difficult for you, go on to the next one.
4. Check your answers thoroughly and make sure you attempt every question.
5. In this booklet, you should have the following:
  - (a) Page 1 to Page 6
  - (b) Questions 1 to 15
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)

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1 In 38 59 what does the digit 9 stand for?

- (1) 9 ones
- (2) 9 tens
- (3) 9 tenths
- (4) 9 hundredths

2 What is the value of  $15 + 3 \times 6 - 24 \div 2$ ?

- (1) 21
- (2) 41
- (3) 42
- (4) 162

3 How many eighths are there in  $2\frac{3}{8}$ ?

- (1) 14
- (2) 16
- (3) 19
- (4) 23

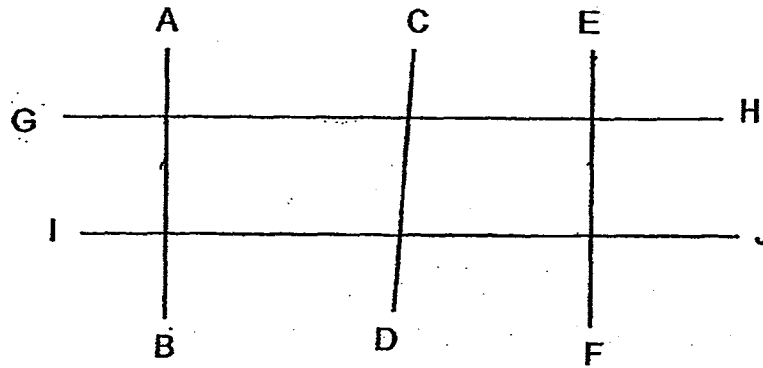
4 A movie started at 21 45 and ended at 00 25 the next day. How long was the movie?

- (1) 2 h 25 min
- (2) 2 h 40 min
- (3) 3 h 20 min
- (4) 21 h 20 min

5 The area of a square is  $144 \text{ cm}^2$ . What is the length of each side of the square?

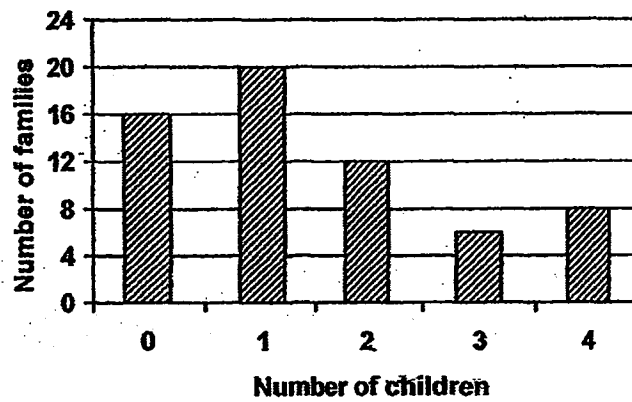
- (1) 12 cm
- (2) 24 cm
- (3) 36 cm
- (4) 72 cm

- 6 Which line is parallel to AB?



- (1) CD
  - (2) EF
  - (3) GH
  - (4) IJ
- 7 Ali had \$15. He spent \$7 and saved the rest. What is the ratio of the amount save to the amount spent?
- (1) 7 : 8
  - (2) 8 : 7
  - (3) 8 : 15
  - (4) 15 : 7
- 8  $\frac{3}{5}$  of the pupils in a class are boys. What percentage of the pupils are girls?
- (1) 25 %
  - (2) 35 %
  - (3) 40 %
  - (4) 60 %

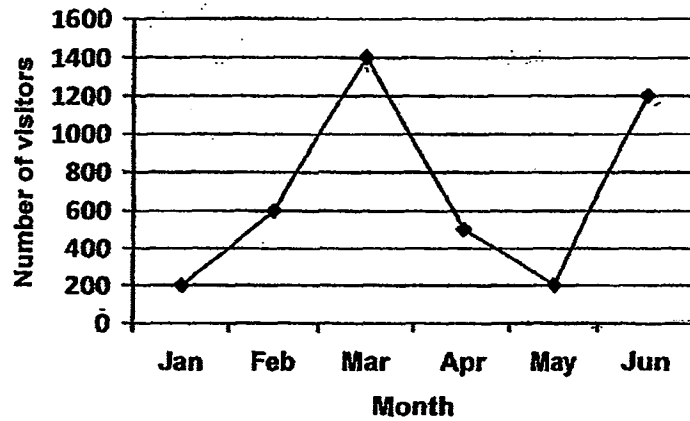
- 9 The bar graph below shows the number of children per family in a HDB block.



How many families have at least 2 children?

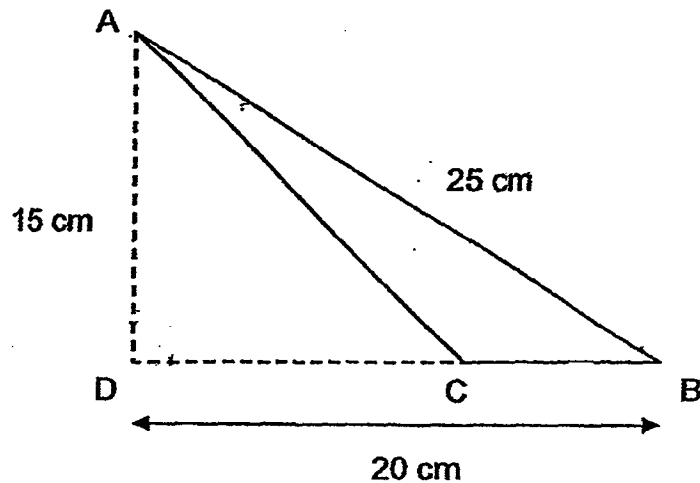
- (1) 14
  - (2) 24
  - (3) 26
  - (4) 28
- 10 Find the difference between 92.21 and 33.25 and round off the answer to the nearest tenth.
- (1) 58.0
  - (2) 59.0
  - (3) 58.96
  - (4) 59.90

- 11 The line graph shows the total number of visitors to the River Safari in the first 6 months of its opening. The number of visitors was recorded on the last day of each month.



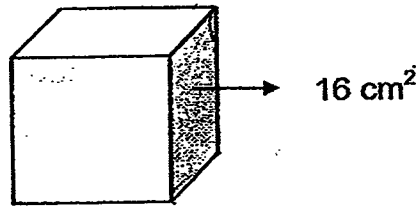
Between which months did the number of visitors increase the most?

- (1) Jan to Feb
  - (2) Feb to Mar
  - (3) Mar to Apr
  - (4) May to Jun
- 12 In the figure below, DCB is a straight line and  $AD=DC$ . What is the area of triangle ABC?

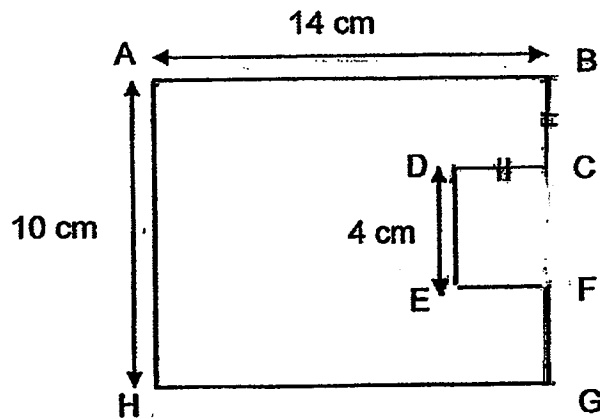


- (1)  $37.5 \text{ cm}^2$
- (2)  $112.5 \text{ cm}^2$
- (3)  $150 \text{ cm}^2$
- (4)  $300 \text{ cm}^2$

- 13 The area of the shaded side of the cube shown below is  $16 \text{ cm}^2$ . What is the volume of the cube?

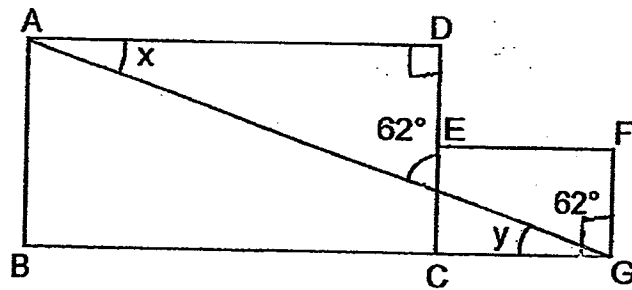


- (1)  $32 \text{ cm}^3$
  - (2)  $64 \text{ cm}^3$
  - (3)  $256 \text{ cm}^3$
  - (4)  $312 \text{ cm}^3$
- 14 All the lines in the figure below meet at right angles. Find the length of line EF.



- (1) 6 cm
- (2) 8 cm
- (3) 3 cm
- (4) 4 cm

- 15 The figure below is made up of a rectangle and a square. Find the sum of  $\angle x$  and  $\angle y$ .



- (1)  $28^\circ$
- (2)  $56^\circ$
- (3)  $62^\circ$
- (4)  $90^\circ$



# RED SWASTIKA SCHOOL

*Continual*  
2014 ~~SEMESTRAL~~ ASSESSMENT <sup>2</sup>/<sub>1</sub>

## MATHEMATICS PAPER 1

Name : \_\_\_\_\_ (     )

Class : Primary 5 / \_\_\_\_\_

Date : 22 August 2014

### BOOKLET B

15 Questions

20 Marks

In this booklet, you should have the following:

(a) Page 7 to Page 11

(b) Questions 16 to 30

### MARKS

	OBTAINED	POSSIBLE
BOOKLET A		20
BOOKLET B		20
TOTAL		40

Parent's Signature : \_\_\_\_\_



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

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- 16 Use all the digits 9, 0, 6 and 5 to form the smallest possible four-digit whole number that is divisible by 5.

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

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- 17 Express  $8\frac{1}{50}$  as a decimal.

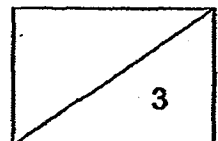
Ans: \_\_\_\_\_

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- 18  $\frac{8}{9}$  of a cake was shared equally among 12 children. What fraction of the cake did each child receive?

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

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19 Find the value of  $12.2 \div 4$ .

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

---

20 A bottle contains 1.25 l of water. Gideon drinks 45 ml of the water.  
How much water is left?

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

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21  : 2 = 56 : 8. What is the missing number in the box?

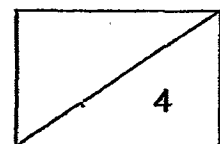
Ans: \_\_\_\_\_

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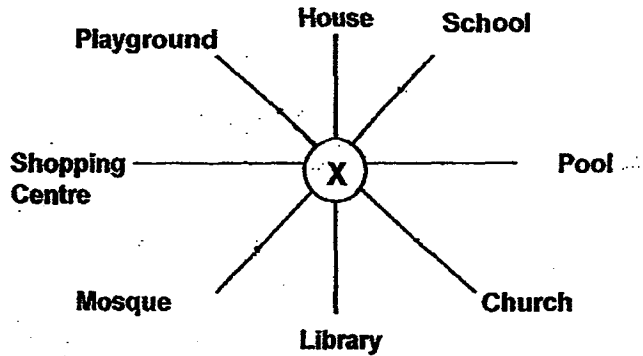
22 Express 15% as a decimal.

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

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- 23 Study the figure below.



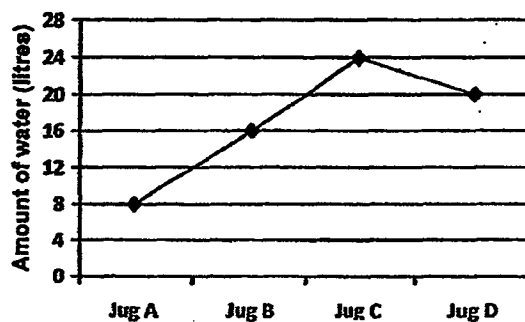
Carrie is at 'X' facing the mosque. She needs to make a clockwise turn of \_\_\_\_\_ to face the church.

Ans: \_\_\_\_\_°

- 24 Find the ratio of 10 minutes to 1.5 hour. Leave your answer in its simplest form.

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

- 25 The line graph below shows the amount of water each jug can hold.



Which jug has a capacity  $\frac{1}{3}$  that of Jug C?

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

Questions 26 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. (10 marks)

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- 26 Bala and Chris shared 320 marbles in the ratio of 3 : 7 respectively. How many marbles must Chris give Bala so that the two boys would have the same number of marbles?

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

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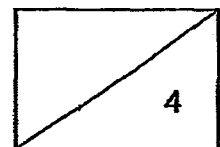
- 27 The table below shows the parking charges for a car at a shopping centre.

Parking charges for cars	
First hour	\$2.00
For every additional $\frac{1}{2}$ hour or part thereof	\$0.90

Mr Tan parked his car from 9.45 a.m. to 12 noon. How much did he have to pay for the parking charges?

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

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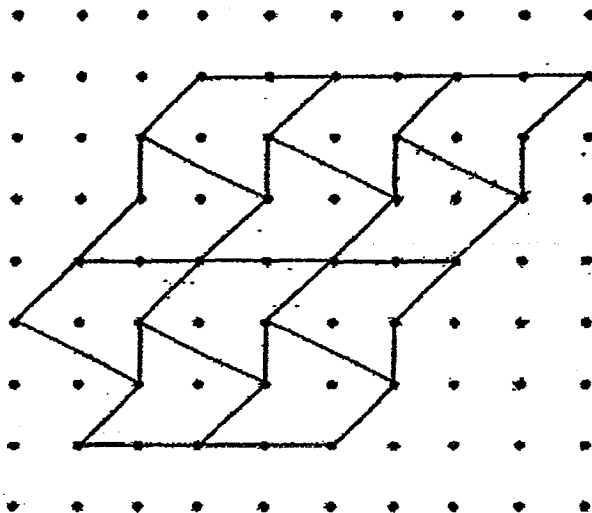
- 28 Mrs Chua paid \$128 for 7 books and 4 pens. Each book cost 4 times as much as a pen. How much more did she paid for a book than a pen?

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

- 29 Ahmad bought some sweets. He ate 10 of them. His mother then gave him the same number of sweets as the number of sweets he had left. Ahmad put all the sweets equally into 8 bags. Each bag contained 12 sweets. How many sweets did Ahmad buy?

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

- 30 The pattern in the box shows a tessellation using a unit shape. Shade the unit shape and complete the tessellation by drawing 2 more unit shapes in the space provided below.



END OF PAPER 1





**RED SWASTIKA SCHOOL**  
*Continual*  
**2014 SEMESTRAL ASSESSMENT<sup>2</sup>**

**MATHEMATICS  
PAPER 2**

Name : \_\_\_\_\_ ( )

Class : Primary 5 / \_\_\_\_\_

Date : 22 August 2014

18 Questions

60 Marks

Duration of Paper 2: 1 hour 40 minutes

**Note:**

1. Do not open this Booklet until you are told to do so.
2. Read carefully the instructions given at the beginning of each part of the Booklet.
3. Do not waste time. If a question is difficult for you, go on to the next one.
4. Check your answers thoroughly and make sure you attempt every question.
5. In this paper, you should have the following:  
(a) Page 1 to Page 13  
(b) Questions 1 to 18
6. You are allowed to use a calculator.

**MARKS**

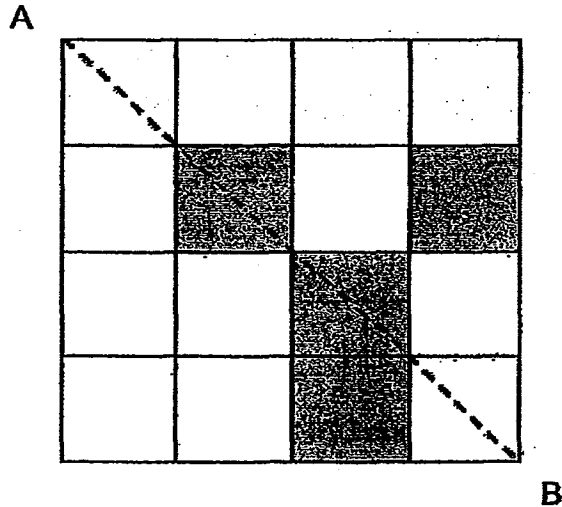
	OBTAINED	POSSIBLE
PAPER 1		40
PAPER 2		60
TOTAL		100

Parent's Signature : \_\_\_\_\_

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

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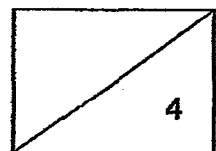
- 1 Shade two more squares to the figure below such that line AB is the line of symmetry.



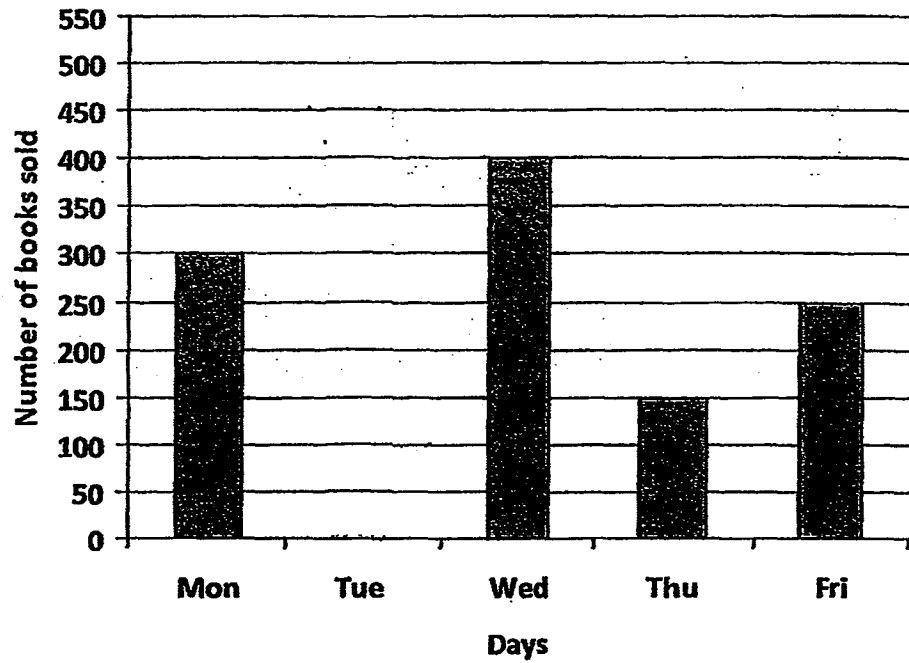
- 2 Daniel answered 18 out of 24 questions correctly in the recent class test. What percentage of the questions was answered wrongly?

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

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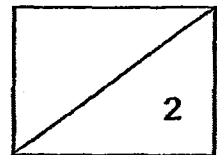


- 3 The bar graph below shows the number of books sold over a period of 5 days in a book fair.



- (a) The number of books sold on Tuesday was 3 times the number of books sold on Thursday. Complete the graph above to show the number of books sold on Tuesday
- (b) What was the total number of books sold from Monday to Friday?

Ans: (b) \_\_\_\_\_

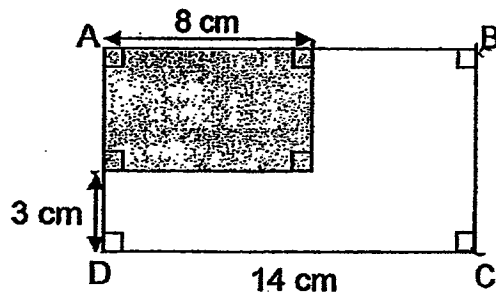




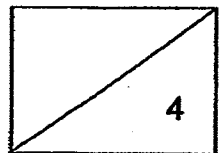
- 4 Amanda bought 2 dresses at \$39.50 and \$29.65 respectively. How much change would she receive if she gave the cashier 2 fifty-dollar notes?

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

- 5 The area of the shaded part is  $48 \text{ cm}^2$ . Find the perimeter of rectangle ABCD.



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



For Questions 6 to 18, show your working clearly in the space below 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. (50 marks)

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- 6 Siti travelled  $\frac{1}{2}$  of her journey to school by train,  $\frac{1}{6}$  of it by bus and walked the remaining 800 m to reach her school. What was the total distance she travelled to school? Give your answer in m.

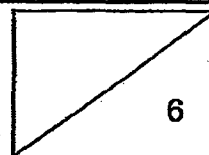
Ans: \_\_\_\_\_ [3]

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- 7 Mr Tan had a total of 1 800 eggs. He sold 40% of the eggs on Monday and 50% of the remaining eggs on Tuesday. How many eggs did he have left?

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

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- 8 The total mass of Andy Ben and Charlie is 175.5 kg. Andy is 26.4 kg heavier than Ben and 14.1 kg heavier than Charlie. Find the mass of Charlie.

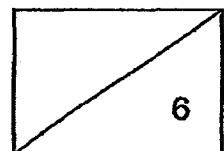
Ans: \_\_\_\_\_ [3]

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- 9 For every 5 books Zack reads, Wayne reads 2 more books than him. If both of them read a total of 168 books, how many books does Wayne read?

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

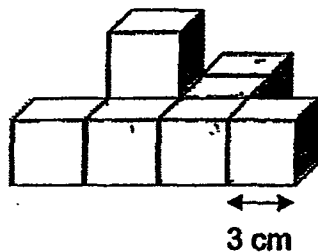
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- 10 The ratio of the number of men to the total number of people at the stadium is  $2 : 7$ . The ratio of the number of children to the number of women was  $3 : 7$ . If there were 60 children, how many people were there at the stadium?

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

- 11 The solid below, not drawn to scale, is made up of identical cubes of side 3 cm. How many more such cubes are needed to build a cuboid 12 cm by 9 cm by 15 cm?

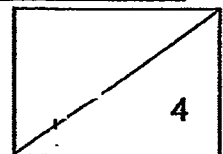


Ans: \_\_\_\_\_ [3]



- 12 The time taken by Wendy to finish a painting is  $\frac{4}{5}$  of the time taken by Xiaofei. Xiaofei took 1 h 10 min to complete the painting. What time will Wendy complete her painting if she starts at 2.15 p.m.?

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



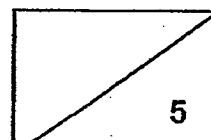
- 13** David took out all his coins in his piggy bank. They were made up of only twenty and fifty-cent coins. There were 12 fifty-cent coins more than twenty-cent coins. The total value of the fifty-cent coins was \$21 more than the total value of the twenty cent coins. Find

(a) the number of fifty-cent coins in David's piggy bank.

(b) the total value of the coins Davis had.

Ans: (a) \_\_\_\_\_ [3]

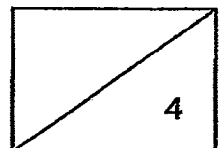
(b) \_\_\_\_\_ [2]



- 14 Samantha and Elaine had some beads each. If Samantha gave Elaine 120 beads, they both would have an equal number of beads. If Elaine gave Samantha 120 beads, Samantha would have 3 times as many beads as Elaine. How many beads did Samantha have?

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

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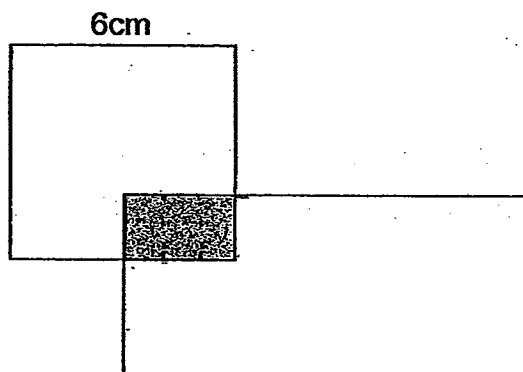
- 15 Dylan had the same number of blue, red and green marbles at first. After selling 45 green marbles and some blue and red marbles, he had 150 marbles left. The number of blue marbles left is 4 times the number of red marbles left. The number of green marbles left was 12 fewer than the number of blue marbles left. How many marbles did Dylan sell?

Ans: \_\_\_\_\_ [5]

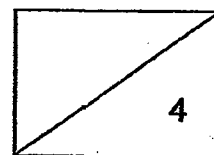




- 16 In the figure below, the ratio of the area of the square to the area of the rectangle is 2 : 5. The ratio of the area of the unshaded part of the square to the unshaded part of the rectangle is 1 : 3. Given that the length of the square 6 cm find the area of the shaded part.



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

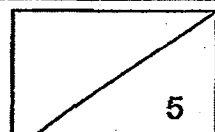


- 17 During a sale, a wallet and a dress were given a 20% and 15% discount respectively. Mrs Tan bought each of the items and saved a total of \$32.95. If she saved \$18.25 more on the wallet than on the dress, find

- (a) the discounted price of the dress.  
(b) the original price of the wallet.

Ans: (a) \_\_\_\_\_ [3]

(b) \_\_\_\_\_ [2]



- 18 Tank A, measuring 12 cm by 15 cm by 15 cm is  $\frac{4}{5}$  filled with water. The water from tank A is then completely poured into Tank B which has a square base of side 12 cm. Tank B is now half-filled with water.

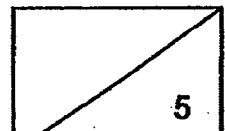
- (a) What is the height of Tank B?
- (b) There is a crack at the bottom of Tank B causing water to leak out of the tank at 2ml per second. How many minutes will it take to empty Tank B completely?

Ans: (a) \_\_\_\_\_ [3]

(b) \_\_\_\_\_ [2]

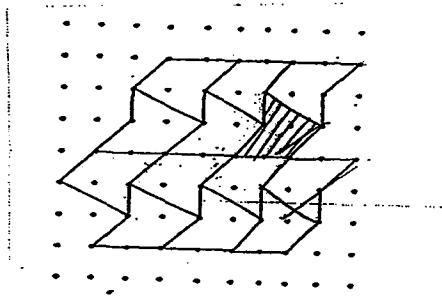
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END OF PAPER 2



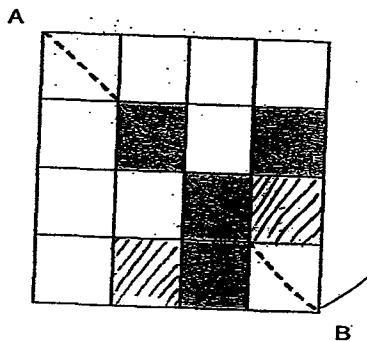
Red Swastika School  
Continual Assessment 2  
Primary 5

- 1) 4
- 2) 1
- 3) 3
- 4) 2
- 5) 1
- 6) 2
- 7) 2
- 8) 3
- 9) 3
- 10) 2
- 11) 4
- 12) 1
- 13) 2
- 14) 3
- 15) 2
- 16) 5690
- 17) 8.02
- 18)  $2\frac{2}{27}$
- 19) 3.05
- 20) 1205 ml
- 21) 14
- 22) 0.15
- 23)  $270^\circ$
- 24) 1 : 9
- 25) Jug A
- 26) 64 marbles
- 27) \$4.70
- 28) \$12
- 29) 58 sweets
- 30)



Paper 2

1)



2)  $24 - 18 = 6$   
 $6/24 \times 100\% = 25\%$

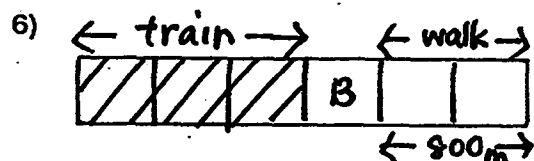
3a)



b)  $300 + 450 + 400 + 150 + 250 = 1550$

4)  $2 \times \$50 = \$100$   
 $\$39.50 + \$29.65 = \$69.15$   
 $\$100 - \$69.15 = \$30.85$

5)  $48/8 = 6$  cm  
Perimeter =  $14 \times 2 + 9 \times 2 = 46$  cm

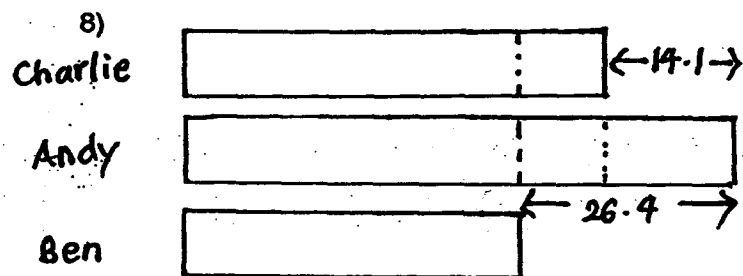


$2u \rightarrow 800$   
 $6u \rightarrow 6/2 \times 800 = 2400$  m

7)



$10u \rightarrow 1800$   
 $3 \rightarrow 3/10 \times 1800 = 540$  eggs



$26.4 - 14.1 = 12.3$  kg  
 $175.5 - 12.3 - 26.4 = 136.8$  kg  
 $136.8/3 = 45.6$  kg  
 $45.6 + 12.3 = 57.9$

9)  $2+5 = 7$

$5+7 = 12$

$168/12 = 14$

$14*7 = 98$  books

10)  $60/3 = 20$

$20*7 = 140$

Total number of women and children =  $140+60 = 200$

Difference between total number of people and number of men = 5

$200/5 = 40$

$40*7 = 280$  people

11) Volume =  $12*9*15 = 1620 \text{ cm}^3$

Volume of 1 cube =  $3*3*3 = 27 \text{ cm}^3$

$8*27 = 216 \text{ cm}^3$

$1620-216 = 1404 \text{ cm}^3$

$1404/27 = 52$  more cubes

12)  $5u \rightarrow 70 \text{ min}$

$4u \rightarrow 4/5*70 = 56 \text{ min}$

$$\begin{array}{r} 14 \ 15 \\ + \quad 56 \\ \hline \end{array}$$

$15 \ 11$

Wendy will complete her painting at 3.11 p.m.

13) Extra value of 12 \$0.50 coins =  $12*\$0.50 = \$6$

a)  $\$21-\$6 = \$15$  (due to the \$0.20 difference)

Difference in value between the 2 coins =  $\$0.50-\$0.20 = \$0.30$

Number of coins for \$15 worth of \$0.50 =  $\$15/\$0.30 = 50$

Total number of \$0.50 coins =  $50+12 = 62$

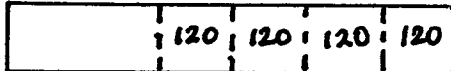
b) Value of \$0.50 coins =  $62*\$0.50 = \$31$

Value of \$0.20 coins =  $50*\$0.20 = \$10$

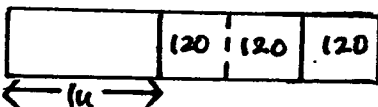
Total value =  $\$31+\$10 = \$41$

14)  $\leftarrow 1u \rightarrow \leftarrow 2u \rightarrow$

Samantha



Elaine



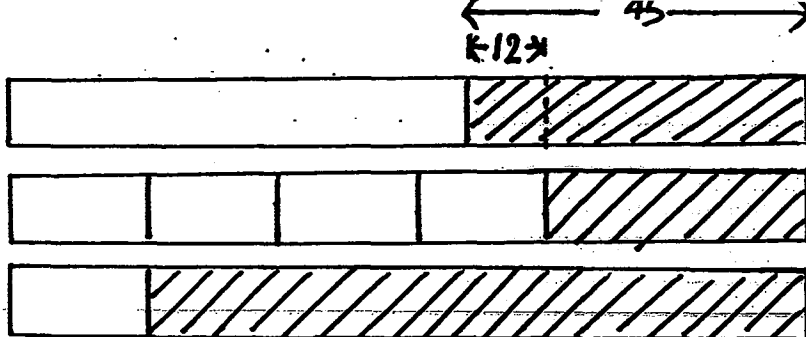
$240/2 = 120$

$240+240 = 480$

$480/2 = 240$

$240+120+240 = 600$  beads

15)



$$150 + 12 = 162$$

$$162 / 9 = 18$$

$$18 \times 4 = 72$$

$$72 - 12 = 60$$

$$60 + 45 = 105$$

$$105 \times 3 = 315$$

$$315 - 150 = 165 \text{ marbles}$$

16) Area of square =  $6 \times 6 = 36 \text{ cm}^2$

$$36 / 2 = 18 \text{ cm}^2$$

$$18 \times 5 = 90 \text{ cm}^2$$

$$90 - 36 = 54 \text{ cm}^2$$

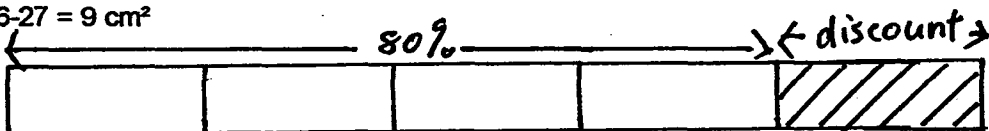
$$3u - 1u = 2u$$

$$54 / 2 = 27 \text{ cm}^2$$

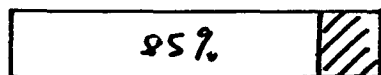
$$36 - 27 = 9 \text{ cm}^2$$

wallet

17

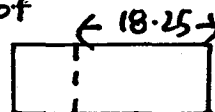


dress



discount of

wallet



discount

32.95

dress



$$\$32.95 - \$18.25 = \$14.70$$

$$\$14.70 / 2 = \$7.35$$

$$15\% \rightarrow \$7.35$$

$$85\% \rightarrow 85 / 15 \times 7.35 = \$41.65$$

$$\$7.35 + \$18.25 = \$25.60$$

$$\$25.60 \times 5 = \$128$$

18) Volume of water in tank A =  $4/5 \times 12 \times 15 \times 15 = 2160 \text{ cm}^3$

$$\text{Volume of tank B} = 2160 \times 2 = 4320 \text{ cm}^3$$

a) Height of tank B =  $4320 / (12 \times 12) = 30 \text{ cm}$

b)  $2160 / 2 = 1080 \text{ cm}^3$

$$1080 / 60 = 18 \text{ minutes}$$