



PEI HWA PRESBYTERIAN PRIMARY SCHOOL  
SEMESTRAL ASSESSMENT 1

PRIMARY 4  
MATHEMATICS PAPER

13 MAY 2015

Name : \_\_\_\_\_

Form Class / Register No. : 4TW \_\_\_\_\_ / \_\_\_\_\_

Banded Class / Register No. : 4M \_\_\_\_\_ / \_\_\_\_\_

Total time: 1 h 45 min

**INSTRUCTIONS TO CANDIDATES**

1. Write your Name, Class and Register No. in the spaces provided 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. For Section A, shade your answers on the Optical Answer Sheet (OAS) provided.
6. For Section B and C, write all your answers in this booklet
7. The use of calculator is **NOT ALLOWED**.

Total Marks :

100

This booklet consists of 19 printed pages, excluding the cover page.

**Section A: Multiple Choice Questions (20 x 2 = 40 marks)**

**For each question, four options are given. One of them is the correct answer.**

**Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.**

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1      96 803 = \_\_\_\_\_ ten thousands + 6 thousands + 8 hundreds + 3 ones

- (1) 6
- (2) 9
- (3) 90
- (4) 96

2      Alan wants to estimate the answer for  $137 + 12$ .  
Which of the following is the best estimation?

- (1)  $130 + 12$
- (2)  $132 + 12$
- (3)  $140 + 12$
- (4)  $142 + 12$

3      What is the missing number?  
 $7153 \times 90 \times 6 = 7153 \times \underline{\hspace{2cm}} \times 60$

- (1) 6
- (2) 9
- (3) 54
- (4) 90

4      Devi fried 3265 chicken nuggets. She packed all the chicken nuggets into some boxes. Each box could only contain 8 chicken nuggets.  
What is the minimum number of boxes she would need?

- (1) 406
- (2) 407
- (3) 408
- (4) 409

- 5 Mrs Raja had 5000 beads.  
She gave all her beads to her only granddaughter and three grandsons.  
Each grandson received the same number of beads.  
Her granddaughter received five times as many beads as each of the grandsons.  
How many beads did each grandson receive?

- (1) 500
- (2) 625
- (3) 1500
- (4) 2500

*Study the table below carefully and answer questions 6 and 7.*

The table below shows the number of cupcakes and pies sold at a shop from January to April.

Month	Number of cupcakes sold	Number of pies sold
January	23	12
February	31	9
March	25	14
April	29	10

- 6 How many more cupcakes than pies did the shop sell from January to April?
- (1) 45
  - (2) 63
  - (3) 108
  - (4) 153
- 7 If a cupcake costs \$2 and a pie costs \$4, how many more cupcakes does the shop have to sell so that the shop earns a total of \$400 from January to April?
- (1) 1
  - (2) 2
  - (3) 3
  - (4) 4

8 How many twelfths are there in  $5\frac{3}{4}$ ?

- (1) 60
- (2) 63
- (3) 69
- (4) 72

9 Which one of the following has the same value as  $9\frac{7}{8}$ ?

- (1)  $8 + \frac{11}{8} + \frac{1}{2}$
- (2)  $8 + \frac{15}{8} + \frac{1}{2}$
- (3)  $8 + \frac{8}{8} + \frac{3}{4}$
- (4)  $8 + \frac{13}{8} + \frac{3}{4}$

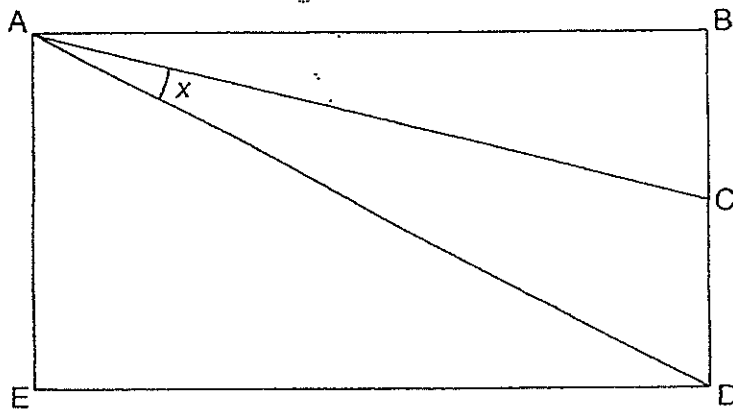
10 The sum of two fractions is  $4\frac{2}{3}$ . If the smaller fraction is  $1\frac{1}{4}$ , what is the difference of the two fractions? Leave your answer as a mixed number.

- (1)  $2\frac{1}{6}$
- (2)  $3\frac{5}{12}$
- (3)  $4\frac{5}{12}$
- (4)  $5\frac{11}{12}$

11  $\frac{8}{9}$  of a number is 72. What is the number?

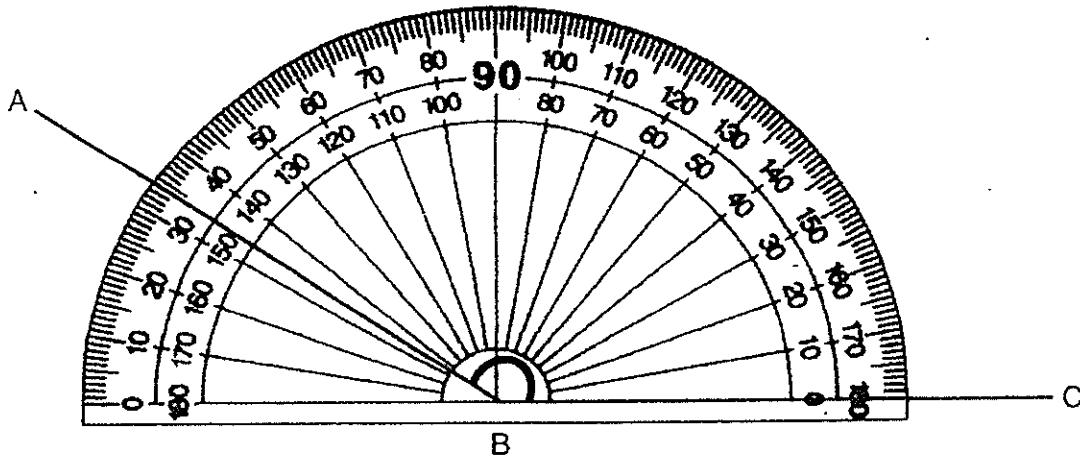
- (1) 64
- (2) 72
- (3) 80
- (4) 81

12 In the figure below, ABDE is a rectangle. Name  $\angle x$ .



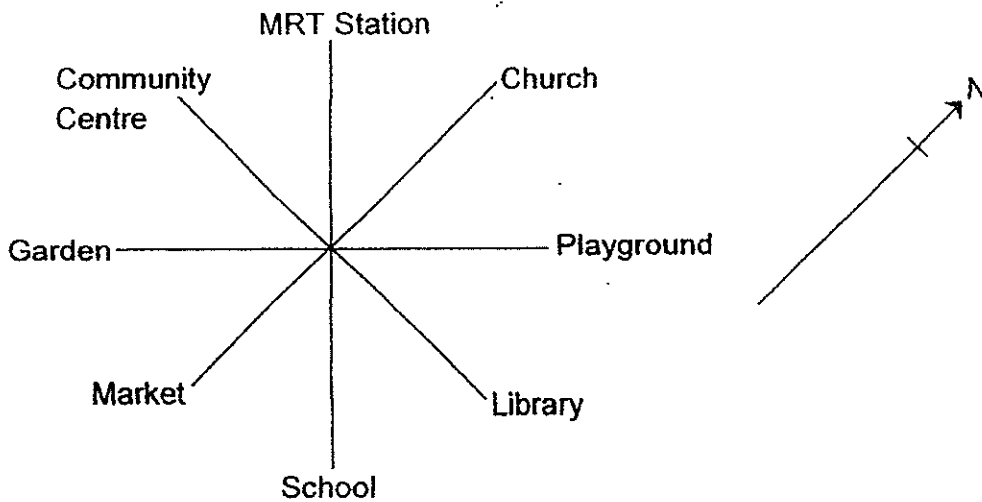
- (1)  $\angle CAE$
- (2)  $\angle CAB$
- (3)  $\angle DAB$
- (4)  $\angle DAC$

13 What is the size of angle  $\angle ABC$ ?



- (1)  $34^\circ$
- (2)  $46^\circ$
- (3)  $146^\circ$
- (4)  $153^\circ$

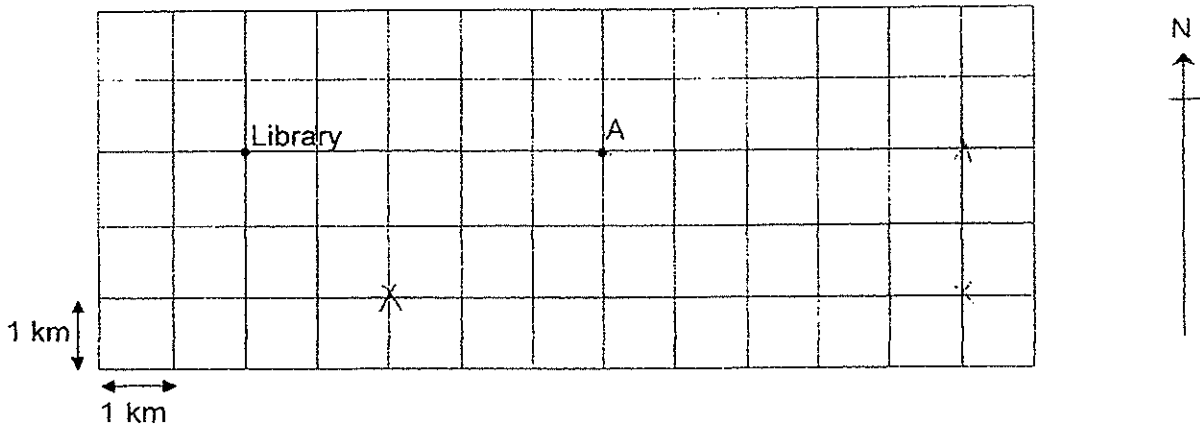
14 Refer to the diagram below and fill in the blank.  
The Market is \_\_\_\_\_ of the Church?



- (1) North
- (2) South
- (3) North-east
- (4) South-west

15

Indra was making his way to the library from point A. He drove 5 km east. He then drove 2 km south. Lastly, he drove another 8 km west.

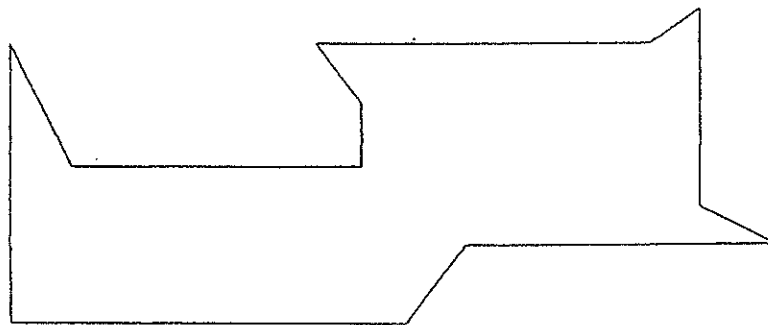


His final position is \_\_\_\_\_ of the library.

- (1) East
- (2) West
- (3) North-west
- (4) South-east

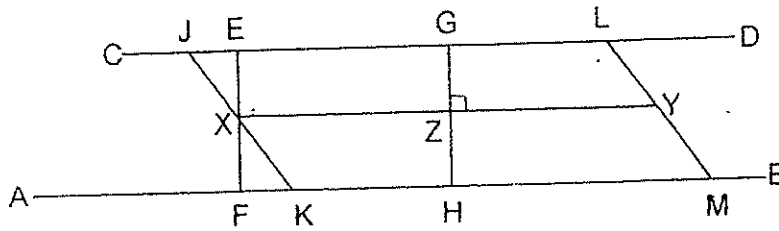
16

In the figure below, how many horizontal and vertical lines are there?



- (1) 3 horizontal and 4 vertical lines
- (2) 4 horizontal and 3 vertical lines
- (3) 5 horizontal and 6 vertical lines
- (4) 6 horizontal and 5 vertical lines

- 17 In the figure below, which lines are perpendicular to line XY?

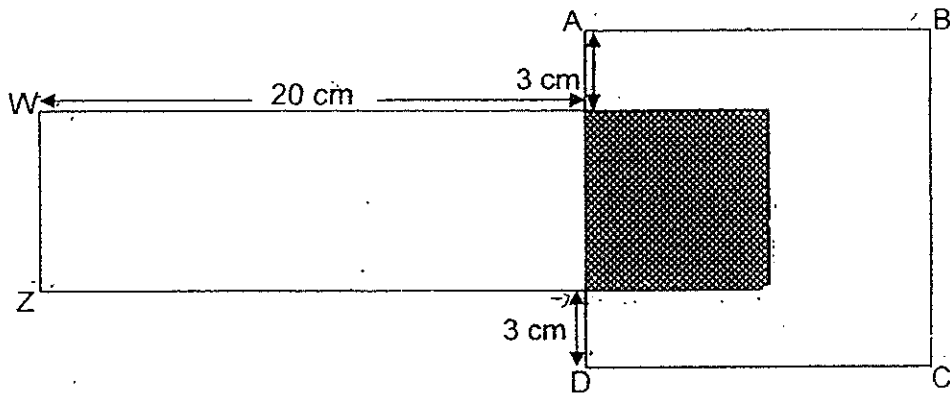


- (1) AB and CD  
(2) EF and GH  
(3) EF, JK and LM  
(4) EF, GH, JK and LM
- 18 How many right angle(s) does a rectangle have?
- (1) 1  
(2) 2  
(3) 4  
(4) 8
- 19 The length of a rectangle is thrice its breadth.  
Find the area of the rectangle if the perimeter of the rectangle is 144 cm.
- (1)  $324 \text{ cm}^2$   
(2)  $972 \text{ cm}^2$   
(3)  $1296 \text{ cm}^2$   
(4)  $3888 \text{ cm}^2$



20

Square ABCD and Rectangle WXYZ overlap each other.  
The area of Square ABCD is  $144 \text{ cm}^2$ .  
Rectangle WXYZ has the same area as Square ABCD.  
Find the area of the shaded part.  
The figure is not drawn to scale.



- (1)  $24 \text{ cm}^2$
- (2)  $36 \text{ cm}^2$
- (3)  $48 \text{ cm}^2$
- (4)  $64 \text{ cm}^2$

**Section B (20 x 2 = 40 marks)**

**Write your answers in the answer blanks provided.**

**For questions that require working, show your working clearly in the space provided.**

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21 Write 93 712 in words.

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

22 Complete the following number pattern.  
1001, 1002, 1008, 1019, 1035, \_\_\_\_\_, 1082

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

23 I am a common factor of 84 and 96.  
I am also a common multiple of 4 and 6.  
What number am I?

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

24 This year, Bernice's age is a 2-digit factor of 72.  
Next year, her age will be a 2-digit factor of 100.  
How old was Bernice last year?

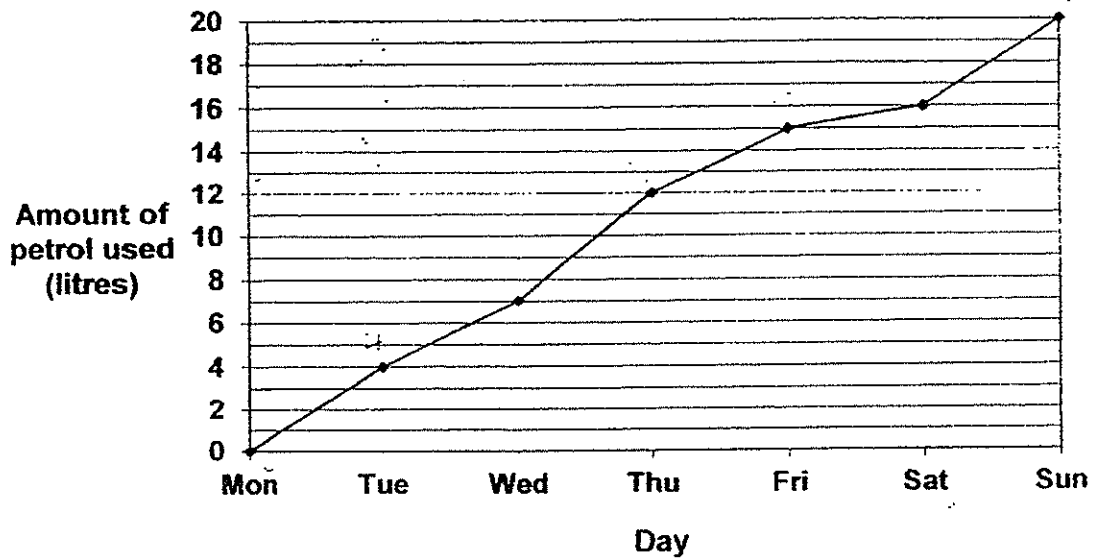
Ans: \_\_\_\_\_

25 Find the value of  $941 \times 59$ .

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

Study the line graph below carefully and answer questions 26 and 27.

The line graph shows the amount of petrol used by a car from Monday to Sunday.



26 How much petrol was used on Friday?

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

- 27 (a) Between which 1-day interval was there a greatest increase in the amount of petrol used?  
(b) Between the 1-day interval as mentioned in part (a), how much was the increase in the amount of petrol used?

Ans: (a) Between \_\_\_\_\_ and \_\_\_\_\_  
(b) \_\_\_\_\_ litres

- 28 A stationery shop sold 1 pen for \$2. For every 5 pens sold, an additional pen would be given free.  
If Mrs Goh spent \$10 on the pens, how many pens did she receive in total?

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

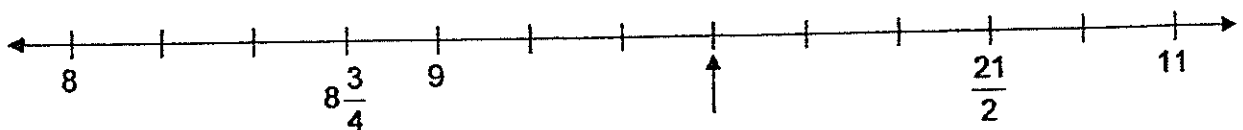
- 29 What is the difference between 12 and  $\frac{9}{11}$ ? Express your answer as a mixed fraction in the simplest form.

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

- 30 What is the sum of  $\frac{3}{4}$ ,  $\frac{3}{5}$  and  $\frac{7}{10}$  in the simplest form?

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

- 31 In the number line below, what is the fraction indicated by the arrow?  
Express your answer as an improper fraction.

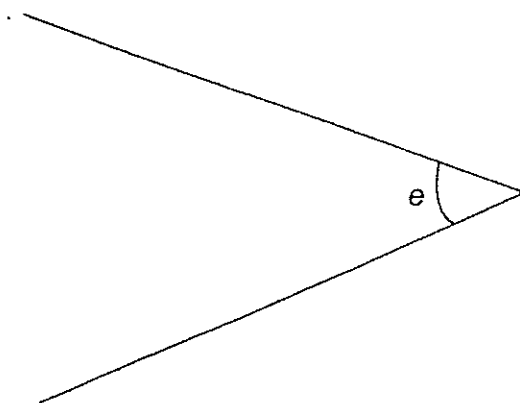


Ans: \_\_\_\_\_

- 32 A class has an equal number of boys and girls.  $\frac{1}{4}$  of the boys and 6 girls do not wear glasses. 29 pupils in the class wear glasses. How many boys do not wear glasses?

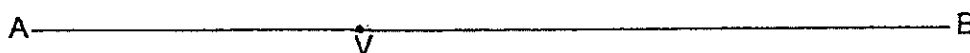
Ans: \_\_\_\_\_

- 33 Measure and write down the size of  $\angle e$  shown below.



Ans: \_\_\_\_\_°

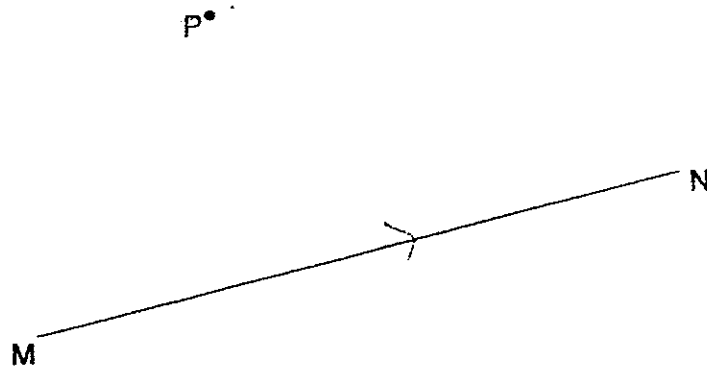
- 34 The figure below shows a line AB and a point V. Draw a line CV such that  $\angle CVA = 130^\circ$  and label clearly.



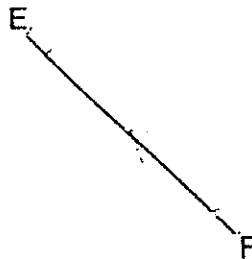
- 35 Michelle donated \$75 to the Children Cancer Foundation. Natalie donated 25 times as much ~~as~~ money as Michelle. How much did they donate altogether?

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

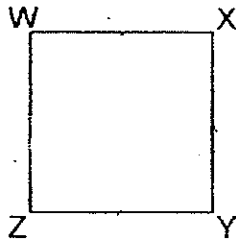
- 36 The figure below shows a line MN and a point P.  
Draw and label a line PQ parallel to MN.



- 37 Follow the instructions below to complete the diagram with line EF.  
Draw and label a line EA perpendicular to line EF  
Draw and label a line AB parallel to line EF  
The length of AB and EA must be 4 cm.  
Join point B to point F.

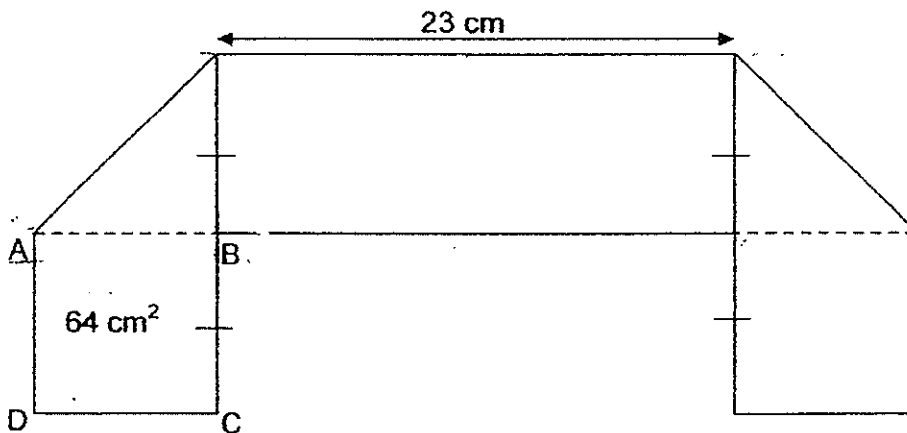


- 38 The figure WXYZ shown below is a square.  
Name two pairs of parallel lines in the figure.



Ans: \_\_\_\_\_ // \_\_\_\_\_ and \_\_\_\_\_ // \_\_\_\_\_

- 39 A rectangular piece of paper is folded to form the shape shown below.  
The area of square ABCD is  $64 \text{ cm}^2$ .  
Find the perimeter of the rectangular piece of paper before it is folded.



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

- 40 Lynette has a wire that is 36 cm long. She uses the entire piece of the wire to form a square. What is the area of the square?

Ans: \_\_\_\_\_  $\text{cm}^2$

**Section C (5 x 4 = 20 marks)**

**Solve each of the following problems. Show all your working and statements clearly.**

**Write your answers in the spaces provided.**

- 41 Mrs Chong has some marbles.  
If she gives each student 8 marbles, she will have 7 marbles left.  
If she gives each student 9 marbles, she will need 4 more marbles.  
How many marbles does Mrs Chong have?

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



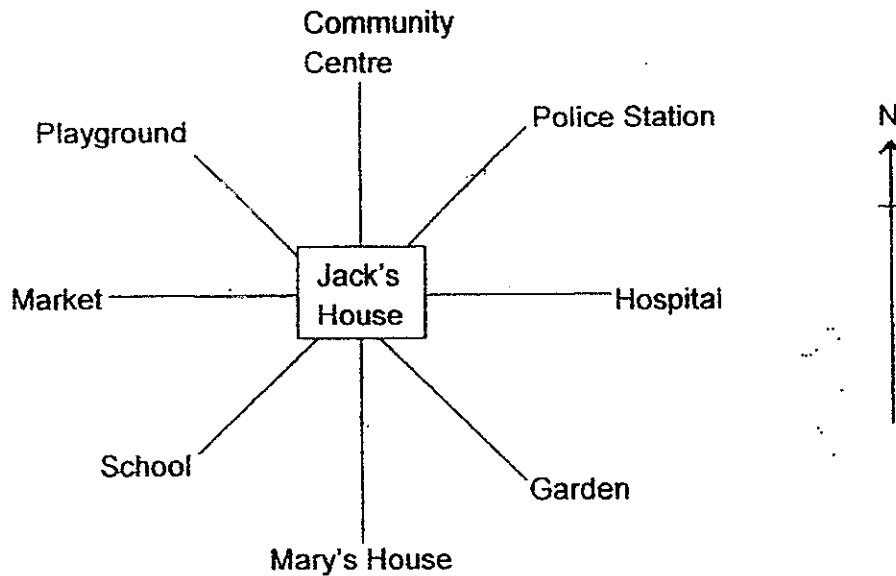
- 42 Harini bought 552 red, blue and green pens altogether.  
There were 328 more red pens than blue pens.  
If she gave 36 blue pens to her friends, she would have twice as many green pens as blue pens.  
How many green pens did Harini buy?

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

- 43 A box containing 8 identical laptops and 4 identical printers weighed  $21\frac{7}{15}$  kg. Another identical box containing 4 identical laptops and 2 identical printers weighed  $10\frac{14}{15}$  kg.  
What is the mass of 25 such empty boxes?

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

Study the diagram below carefully and answer the questions.



- (a) Jack was at home facing the east direction.  
After he made a  $\frac{3}{4}$  - turn anti-clockwise and followed by a  $\frac{1}{2}$  - turn clockwise, which place would he be facing then?
- (b) Jack's brother was at home facing the North-east direction.  
After he turned an angle of  $225^\circ$  in the clockwise direction and followed by a  $45^\circ$  turn in the anti-clockwise direction, which place would he be facing then?

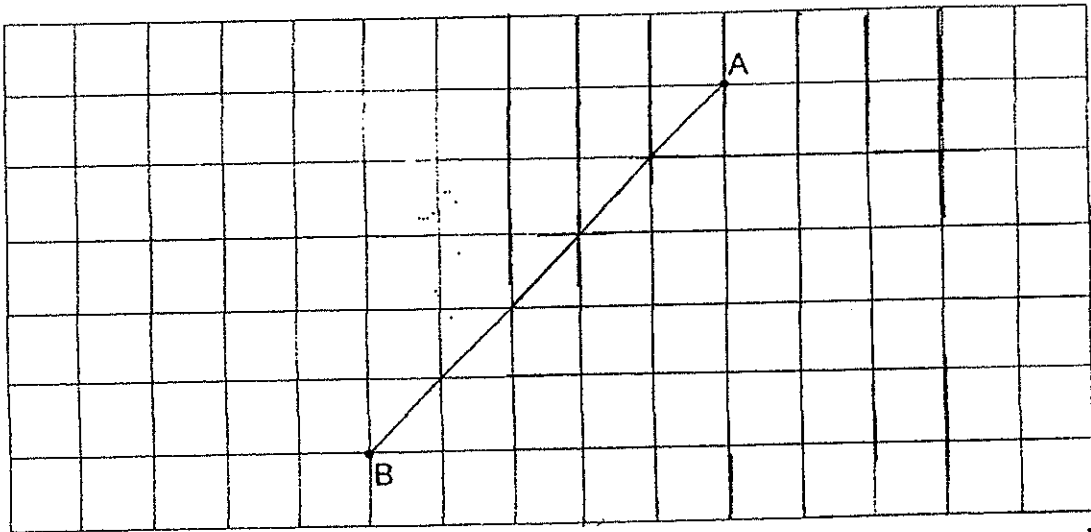
Ans: (a) \_\_\_\_\_ [2]

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

45

In the square grid, AB is a straight line.

- (a) Draw a line perpendicular to line AB within the grid.
- (b) Draw a line parallel to line AB within the grid.



[4]

\*\*\*\*\* END OF PAPER \*\*\*\*\*  
PLEASE CHECK YOUR WORK.

**EXAM PAPER 2015**

**LEVEL : PRIMARY 4**

**SCHOOL : PEI HWA PRESBYTERIAN PRIMARY SCHOOL**

**SUBJECT : MATHEMATICS**

**TERM : SA1**

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
2	2	2	4	2	2	2	3	1	1
Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20
4	4	3	2	4	2	2	3	2	1

Q21. Ninety - three thousand, seven hundred and twelve

Q22. 1056

Q23. 12

Q24. 23 years old

Q25. 55519

Q26. 15 litres

Q27a. Wednesday and Thursday

Q27b. 5 litres

Q28.  $6 \rightarrow 10 \div 2 = 5, 5 + 1 = 6$

Q29.  $11\frac{2}{11}$

Q30.  $2\frac{1}{20}$

Q31.  $\frac{39}{4}$

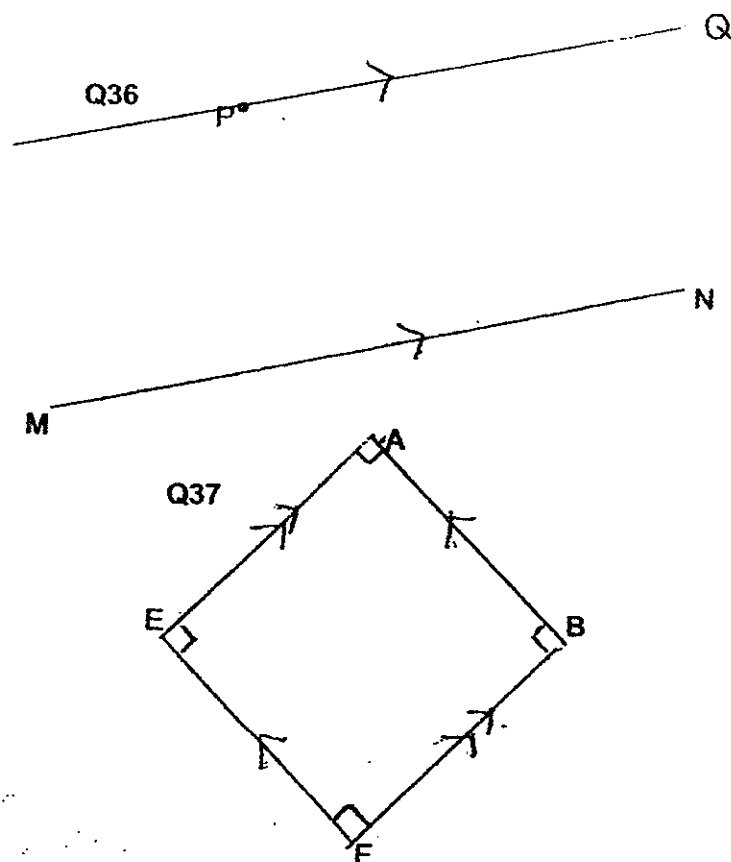
Q32.  $5 \rightarrow 3 + 4 = 7, 7 \rightarrow$  units 35, 1 unit  $35 \div 7 = 5$

Q33.  $44^\circ$

Q34. No model answer

Q35.  $\$1950 \rightarrow N \rightarrow 1875, M \rightarrow 75, 1875 + 75 = 1950$

Q36. SEE PICTURE Q37. SEE PICTURE Q38.  $WX \parallel ZY$  and  $WZ \parallel XY$



Q39. 126cm

Q40.  $81\text{cm}^2 \rightarrow 36 \div 4 = 9, 9 \times 9 = 81$

Q41. 95 marbles

No. of students	7	8	9	10	11
Multiples of 8	56	64	72	80	88
Multiples of 8 + 7	63	71	79	87	95
Multiples of 9	63	72	81	90	99
Multiples of 9 - 4	59	68	77	86	95

Q42. 76 green pens

$$552 - 328 = 224$$

$$224 - 36 = 188$$

$$188 - 36 = 152$$

$$4u \rightarrow 152, 1u \ 152 \div 4 = 38$$

$$2u \rightarrow 38 \times 2 = 76$$

Q43. 10kg

$$21\frac{7}{5} - 10\frac{14}{15} = 10\frac{8}{15}$$

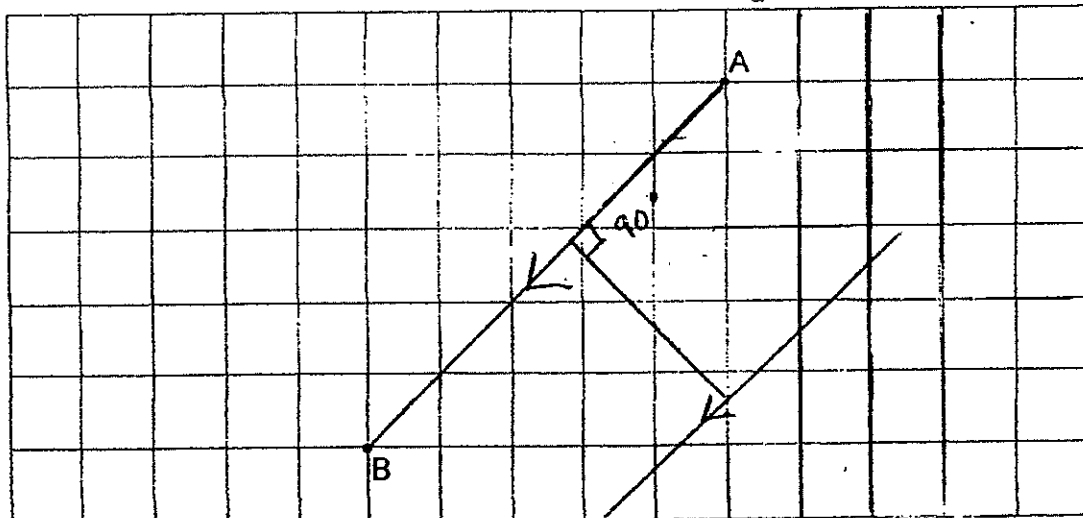
$$10\frac{14}{15} - 10\frac{8}{15} = \frac{6}{15} = \frac{2}{5}$$

$$\frac{2}{5} \times 25 = 2 \times 5 = 10$$

Q44a. Community centre

Q44b. School

Q45a and Q45b. SEE PICTURE



THE END