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 × 90× 6 = 7153 × _____ × 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?

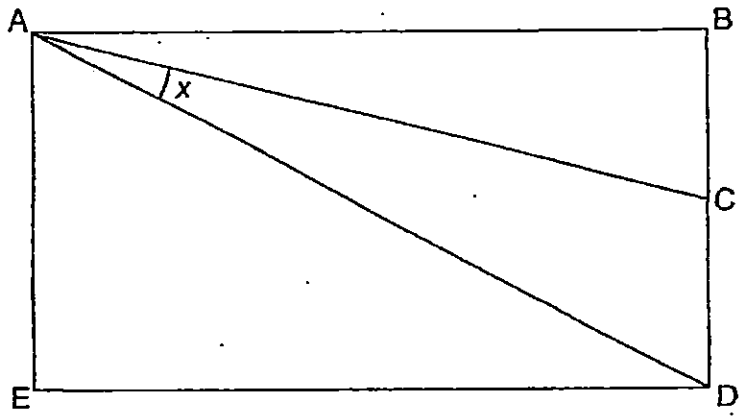
(1) 64

(2) 72

(3) 80

(4) 81

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



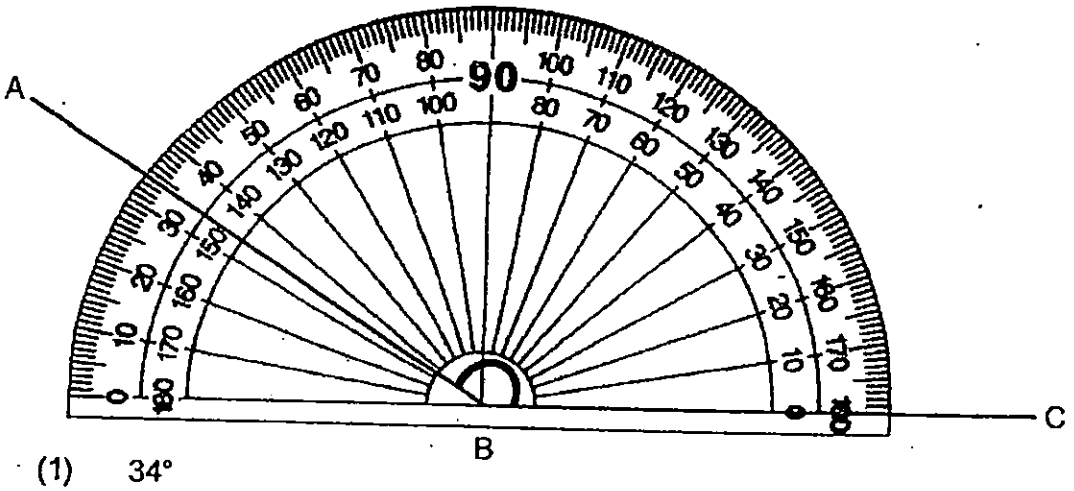
(1) ∠CAE

(2) ∠CAB

(3) ∠DAB

(4) ∠DAC

13 What is the size of angle ∠ABC?



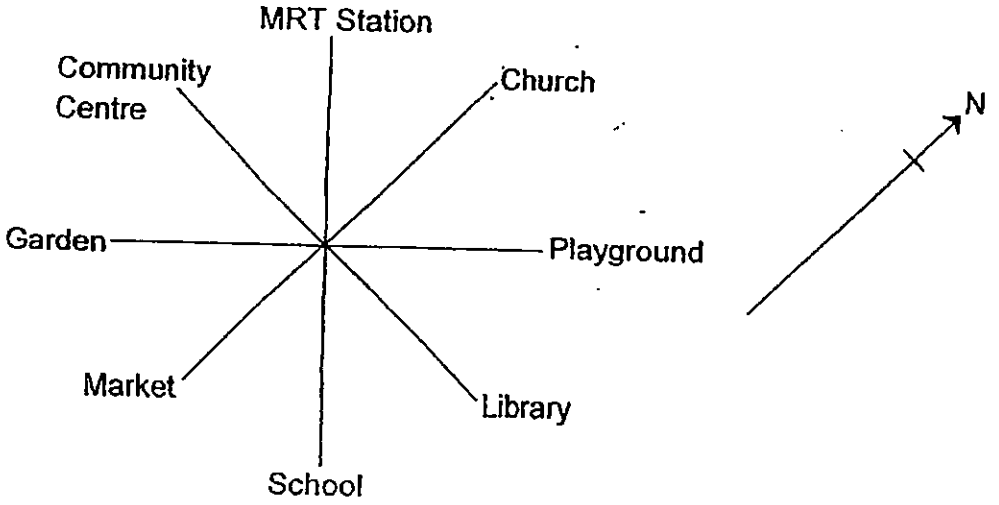
(1) 34°

(2) 46°

(3) 146°

(4) 153°

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



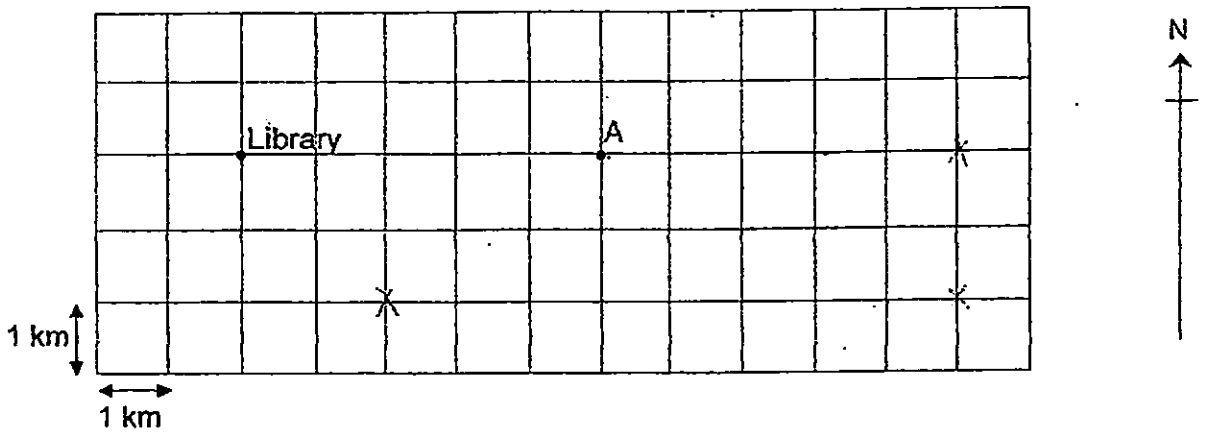
(1) North

(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.

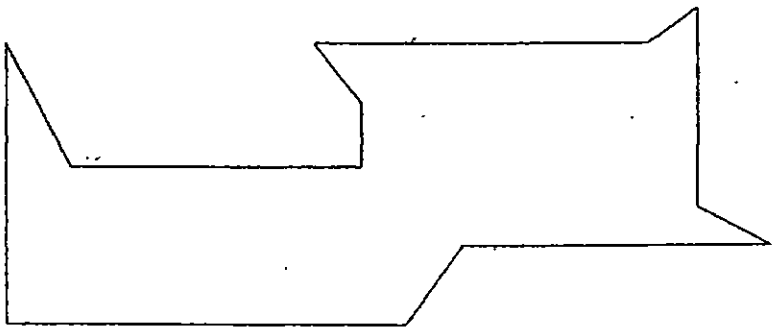
(1) East

(2) West

(3) North-west

(4) South-east

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



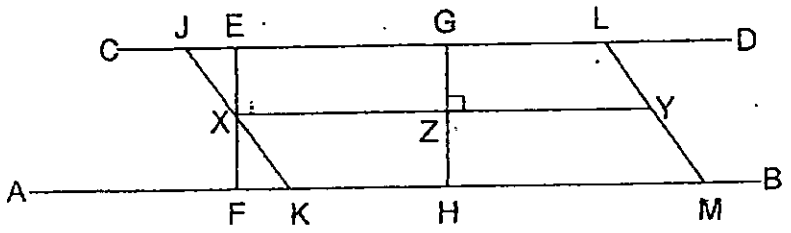
(1) 3 horizontal and 4 vertical lines

(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.

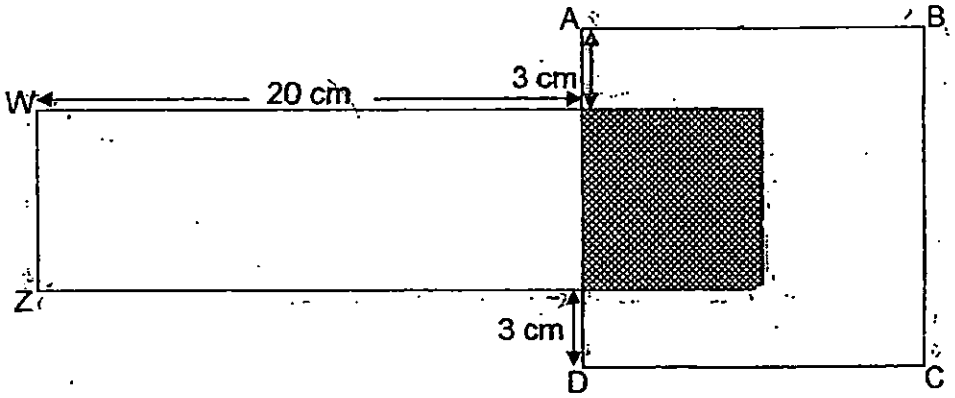
(1) 324 cm^2

(2) 972 cm^2

(3) 1296 cm^2

(4) 3888 cm^2

20 Square ABCD and Rectangle WXYZ overlap each other.
The area of Square ABCD is 144 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 cm^2

(2) 36 cm^2

(3) 48 cm^2

(4) 64 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.

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?

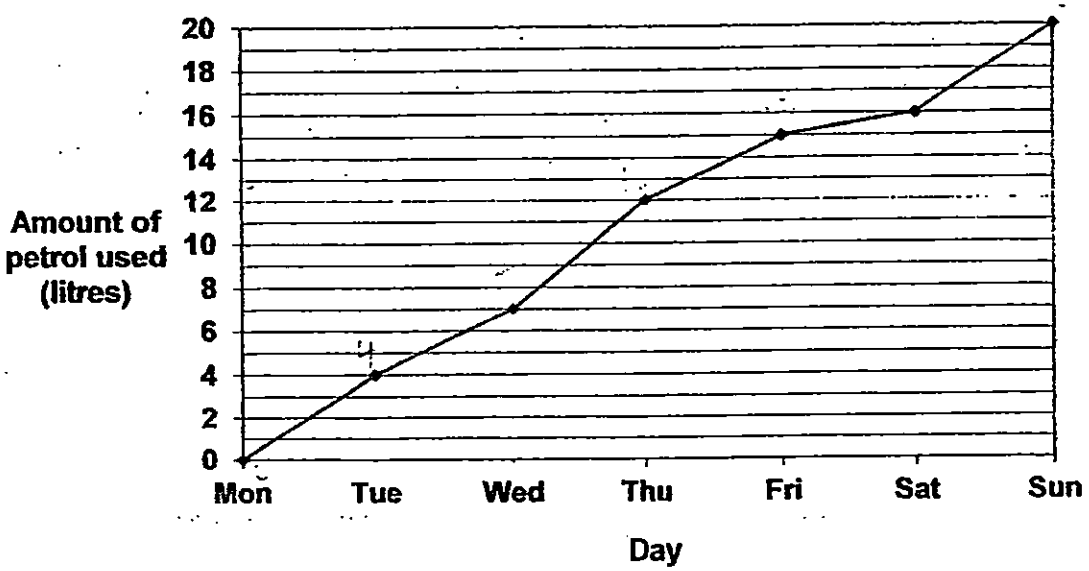
Ans: _____

25 Find the value of 941×59.

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: _____

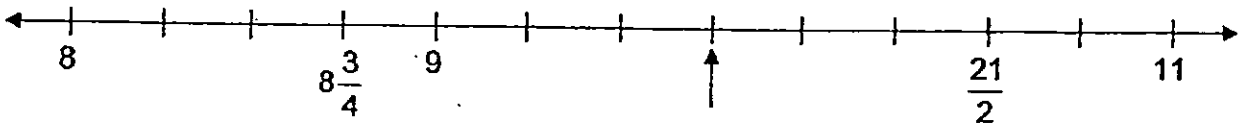
29 What is the difference between 12 and $\frac{9}{11}$? Express your answer as a mixed fraction in the simplest form.

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.

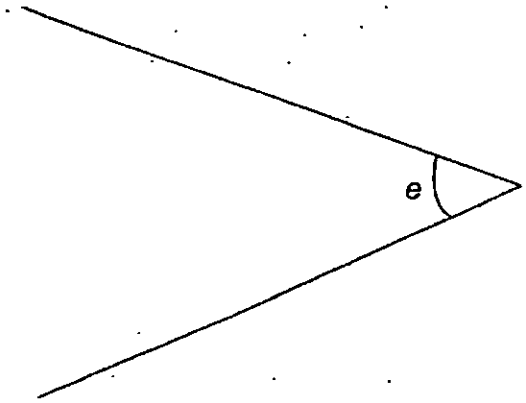


Ans: _____

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?

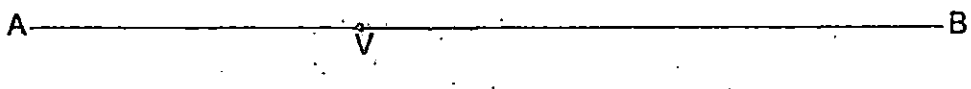
Ans: _____

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



Ans: _____ °

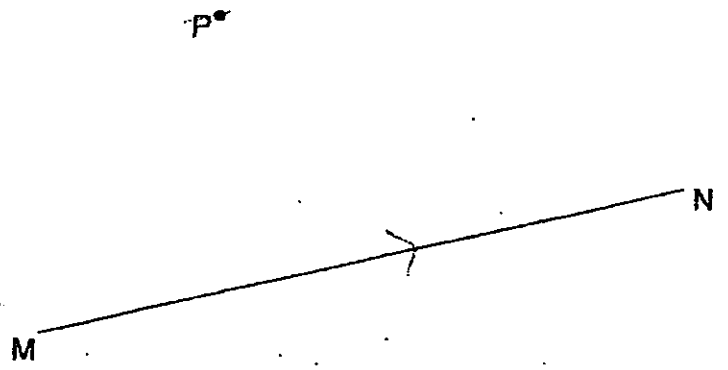
34 The figure below shows a line AB and a point V. Draw a line CV such that $\angle CVA = 130°$ and label clearly.



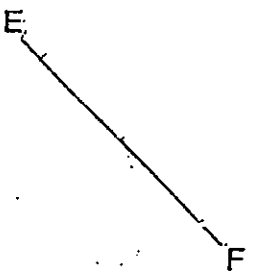
35 Michelle donated $75 to the Children Cancer Foundation. Natalie donated 25 times as much as money as Michelle. How much did they donate altogether?

Ans: _____

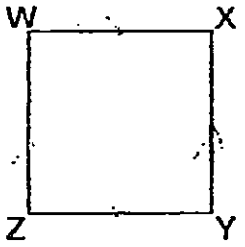
36 The figure below shows a line MN and a point P.
Draw and label a line PQ parallel to MN.



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.

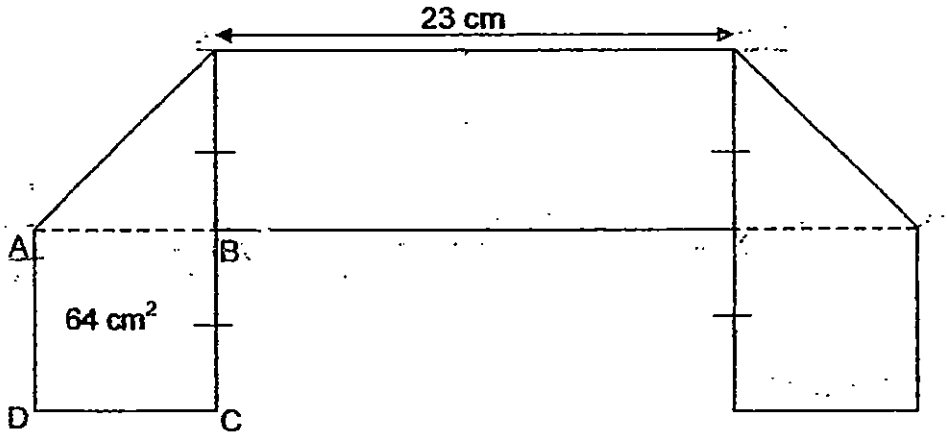


38 The figure WXYZ shown below is a square.
Name two pairs of parallel lines in the figure.



Ans: ____ // ____ and ____ // ____

39 A rectangular piece of paper is folded to form the shape shown below.
The area of square ABCD is 64 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: _____ 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?

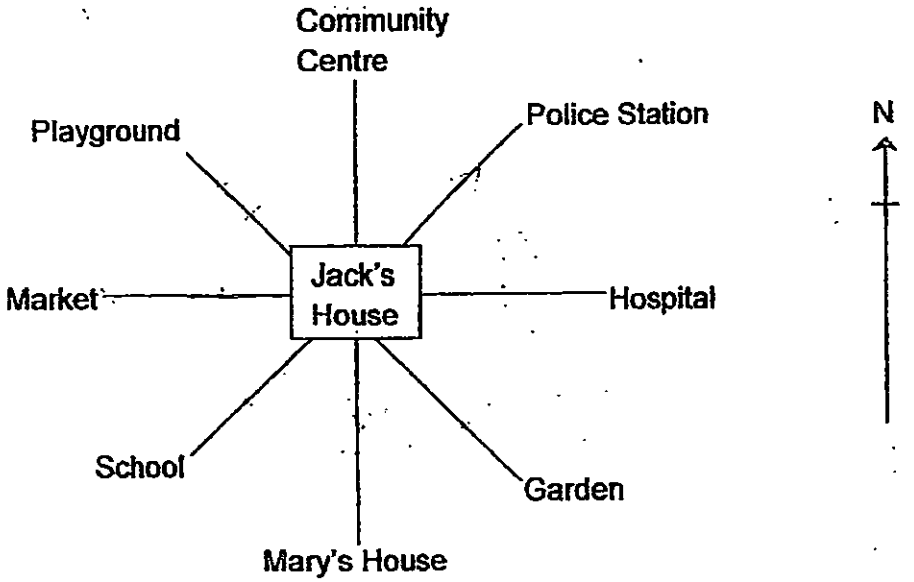
Ans: _____ [4]

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]

44 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?

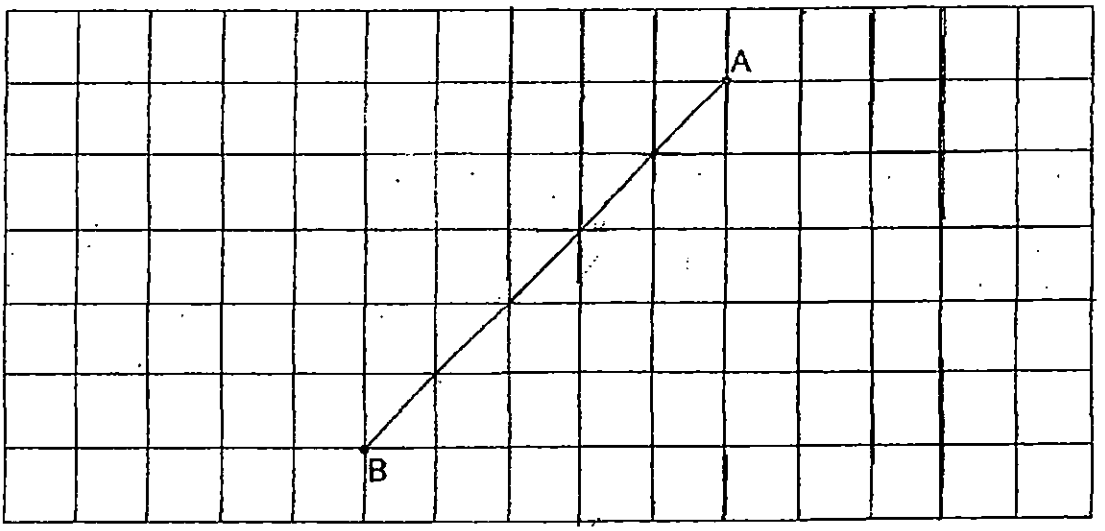
(b) Jack's brother was at home facing the North-east direction.
After he turned an angle of 225° in the clockwise direction and
followed by a 45° turn in the anti-clockwise direction,
which place would he be facing then?

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

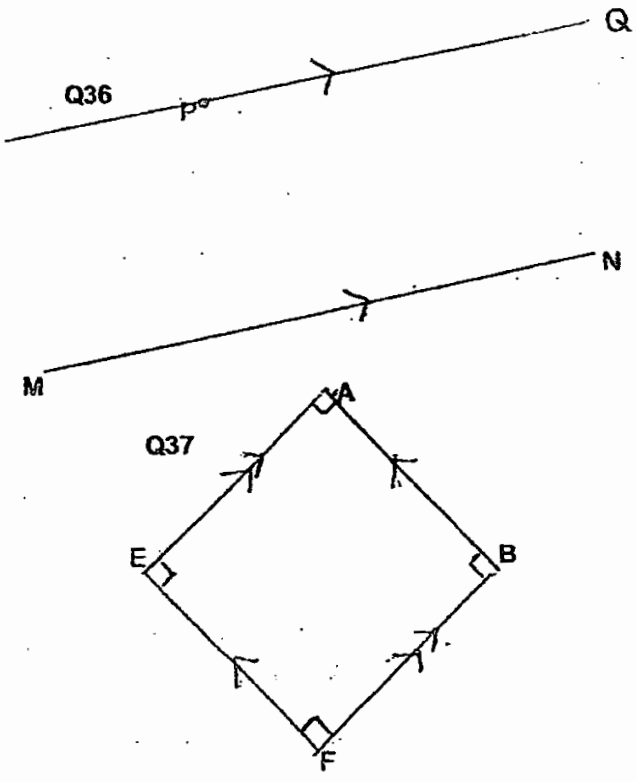
Q26. 15 litres Q27a. Wednesday and Thursday Q27b. 5 litres

Q28. 6➔ 10÷2=5, 5+1=6 Q29. $11\frac{2}{11}$ Q30. $2\frac{1}{20}$ Q31. $\frac{39}{4}$

Q32. 5 ➔3+4=7, 7➔ units 35, 1 unit 35÷7=5

Q33. 44° Q34. No model answer Q35. $1950➔ N ➔1875, M ➔75, 1875 +75=1950

Q36. **SEE PICTURE** Q37. **SEE PICTURE** Q38. WX // ZY and WZ//XY



Q39. 126cm Q40. 81cm² → 36÷4=9, 9 x 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 → 152, 1u 152 ÷4=38
2u → 38x2=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