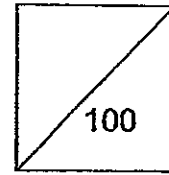**HENRY PARK PRIMARY SCHOOL**
2012 SEMESTRAL EXAMINATION I
MATHEMATICS
PRIMARY 4

100

Name:_____ (   )   Parent's Signature

Class: Pr 4٬_____   _____

Duration of Paper: 1 h 45 min

<u>**Section A : (15 x 2 marks = 30 marks)**</u>
Read each question carefully. For each question, four options are given.
One of them is the correct answer. Choose the correct answer (1, 2, 3 or 4).
Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet provided.

1.   Which of the following is a factor of 57?

  (1) 6
  (2) 7
  (3) 3
  (4) 9   (   )

2.   What is the value of 678 × 14?

  (1) 2390
  (2) 3390
  (3) 8492
  (4) 9492   (   )

1

139

3. Express $\dfrac{24}{5}$ as a mixed number.

   (1) $2\dfrac{4}{5}$

   (2) $4\dfrac{2}{5}$

   (3) $4\dfrac{4}{5}$

   (4) $5\dfrac{4}{5}$ (   )
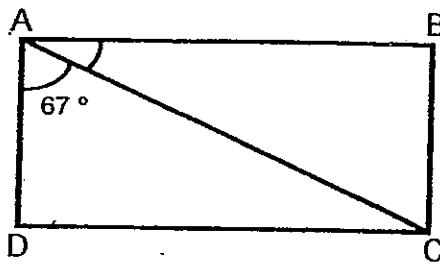

4. How many sixths are there in $7\dfrac{5}{6}$?

   (1) 35
   (2) 42
   (3) 47
   (4) 75   (.   )
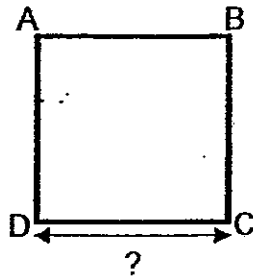

5. ABCD is a rectangle. Find $\angle BAC$.

   (1) 13 °
   (2) 23 °
   (3) 67 °
   (4) 90 °   (   )

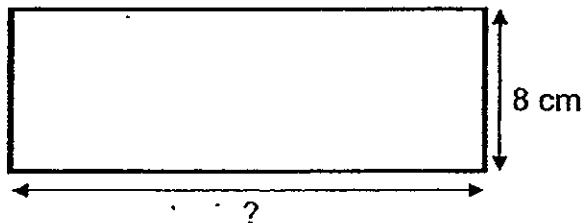6. The area of the square ABCD is 36 cm².
   What is the length of the square?

   (1) 6 cm
   (2) 9 cm
   (3) 18 cm
   (4) 24 cm   (   )

7. The perimeter of the rectangle shown below is 88 cm.
   Given that its breadth is 8 cm, what is its length?

   (1) 11 cm
   (2) 36 cm
   (3) 40 cm
   (4) 72 cm   (   )

8. Which of the following number is a common multiple of 3, 4 and 8?

   (1) 12
   (2) 24
   (3) 32
   (4) 56   (   )

9. Apples are packed and only sold in boxes of 12.
Each box of apples costs $8. Ahmad has $150.
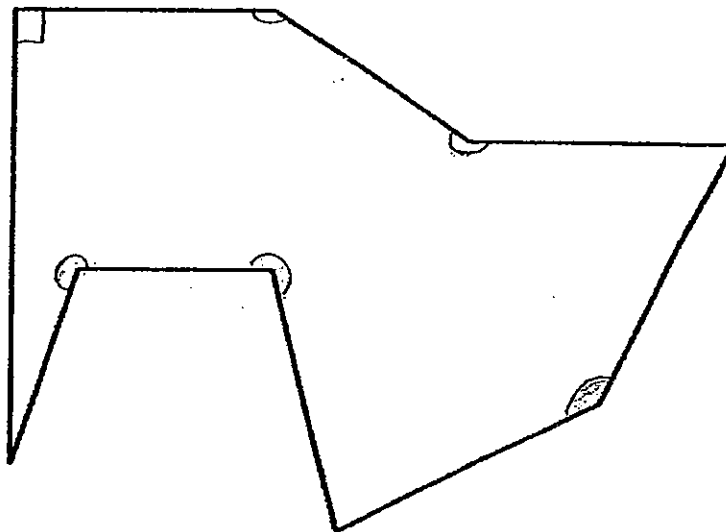What is the maximum number of apples that Ahmad can buy?

(1) 96
(2) 104
(3) 216
(4) 228

( )

10. Mr Neo left his home at 13 50 on Monday.
He returned home at 02 20 the next day.
How long was he away from home?

(1) 11 h 30 min
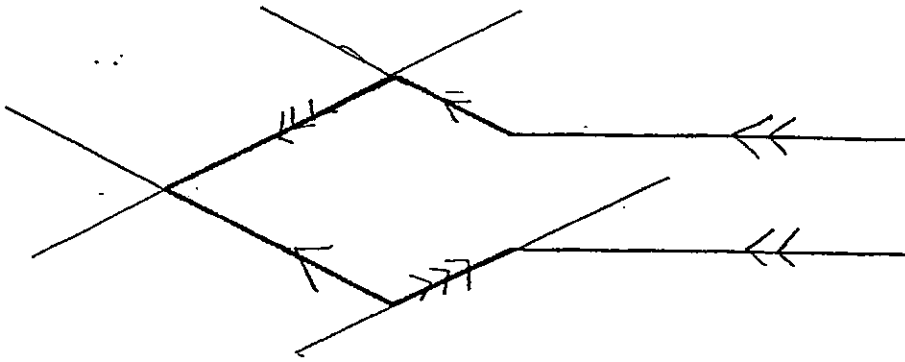(2) 12 h 30 min
(3) 13 h 30 min
(4) 14 h 30 min

( )

11. In the figure below, how many angles inside the figure are **greater than** a right angle?
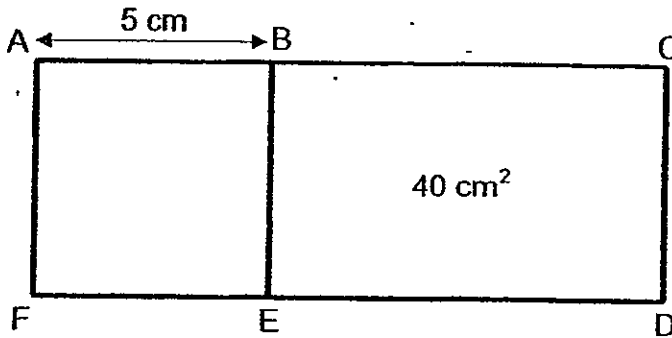
(1) 5
(2) 2
(3) 7
(4) 9

( )

12. How many **pairs** of parallel lines are there in the figure shown below?

(1) 1
(2) 2
(3) 3
(4) 4

( )

13. The figure below is made up of a square ABEF and a rectangle BCDE. The length of the square is 5 cm. The area of the rectangle is 40 cm^2.
What is the perimeter of the figure ACDF?
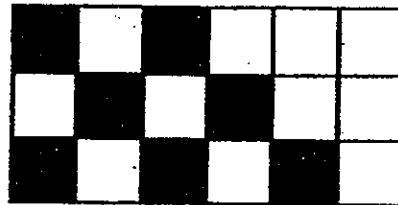

(1) 36 cm
(2) 41 cm
(3) 46 cm
(4) 65 cm

)

5

14. Four identical files and five identical notebooks cost $57
A file costs $3 more than a notebook.
What is the cost of one such file?

(1) $5
(2) $8
(3) $9
(4) $14   (   )

15. Timmy wants $\dfrac{5}{6}$ of the figure shown below to be shaded.
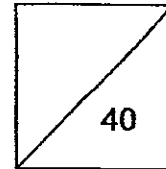
How many more squares must he shade?

(1) 1
(2) 2
(3) 8
(4) 15   (   )

6

<table>
<tr><td></td><td>40</td></tr>
</table>

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

Read the questions carefully. Show your working clearly and write your answers in the boxes provided. For questions which require units, give your answers in the units stated.

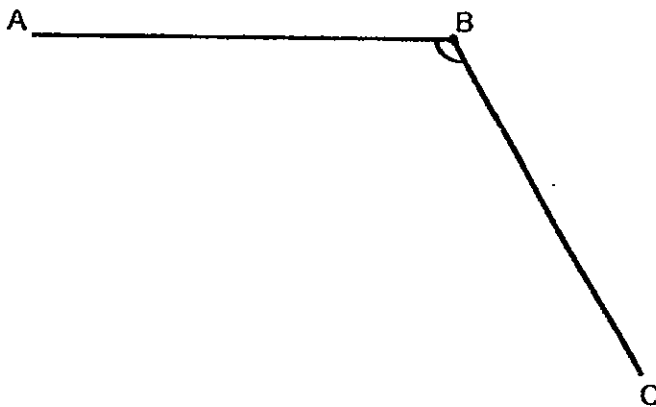16.   Round off 26 549 to the nearest hundred.

17. $5800 = $ _____ tens

18. $6097 \div 8 = $ _____ R _____

19. Find the value of $5 - \dfrac{2}{6}$.

Express your answer as a mixed number in the simplest form.

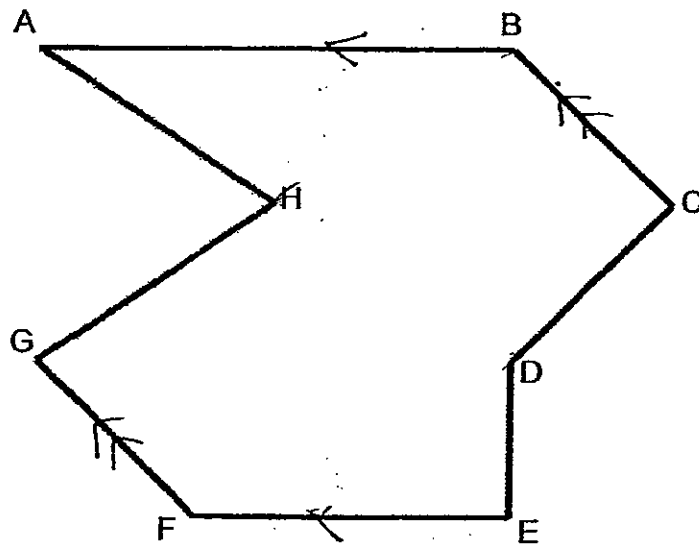```
┌─────────────────────────────┐
│   │
│   │
│   │
└─────────────────────────────┘
```

20. Ming took 13 min 40 s to complete his worksheet.
Express the time taken in seconds.

```
┌─────────────────────────────┐
│                             │
│                             │
│                             │
└─────────────────────────────┘
```

21. Measure and write down the size of ∠ ABC.

A_____B
C

```
┌─────────────────────────────┐
│                           o │
│                             │
│                             │
└─────────────────────────────┘
```

22. Look at the diagram shown below. List 2 pairs of parallel lines.

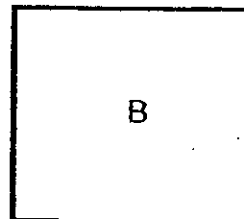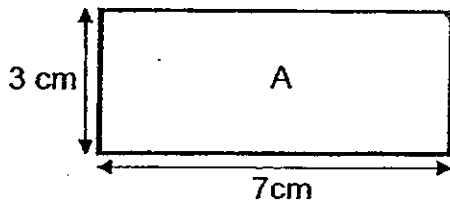

_____ // _____

_____ // _____

23. XY is a straight line. Draw a line perpendicular to the line XY through the point A.

147
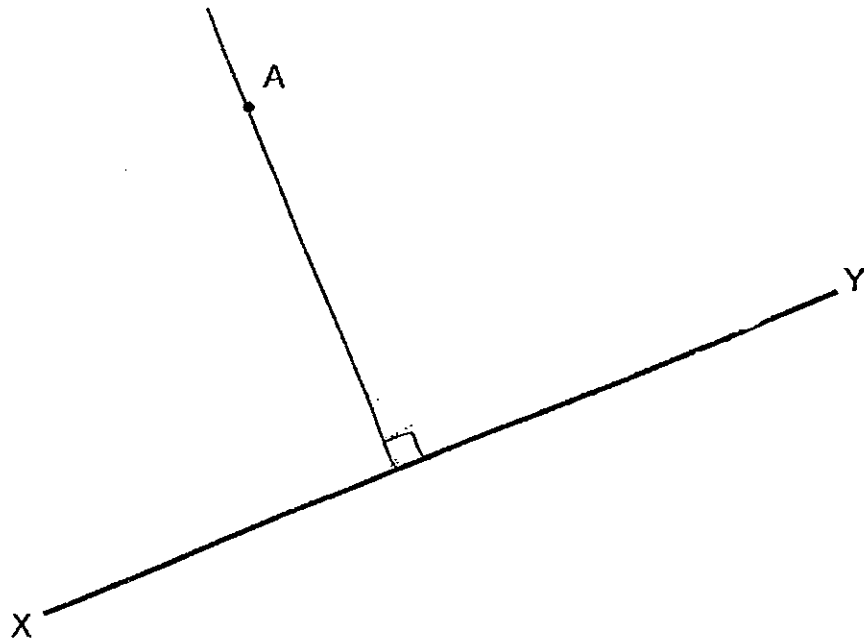
24. Sarah is standing at X in the figure below. She is facing the MRT Station. Where will Sarah face if she turns 270° anticlockwise?

Market

Park ———— X ———→ MRT Station

School

```
┌─────────────────────────────┐
│                             │
│                             │
└─────────────────────────────┘
```
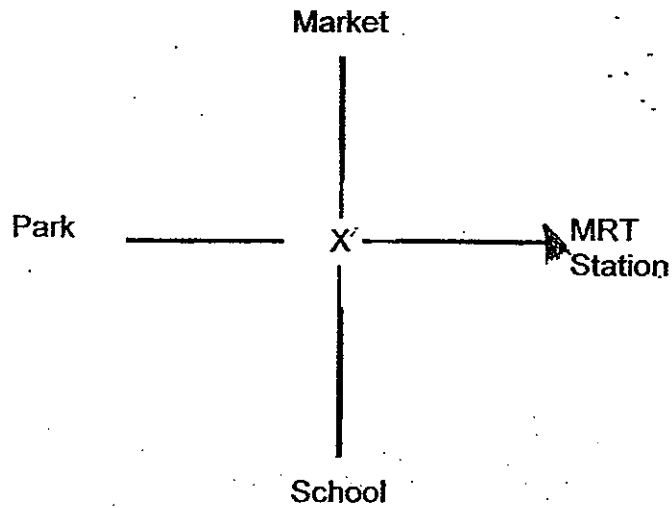
25. Rectangle A and Square B have the same perimeter.
Find the area of Square B.

3 cm [A] 7cm

[B]

```
┌─────────────────────────────┐
│                             │
│                        cm²  │
└─────────────────────────────┘
```

10

26. Muthu has just enough money to buy 8 pies.
After buying 3 pies, he had $15 left.
How much money did Muthu have at first?

$$\$ $$

27. Mrs Raju used a total of 150 cm of red and white ribbons to decorate her Christmas tree. She used 70 cm more white ribbon than red ribbon. What is the length of white ribbon she used?

$$ \text{cm}$$

28. Jane had some sweets. She found that she did not have any sweets left over if she divided the sweets into bags of 2, 4 or 7. What was the smallest possible number of sweets Jane had?

29. Mr Tan is 30 years older than his son now. Next year, Mr Tan will be twice as old as his son. How old is Mr Tan now?
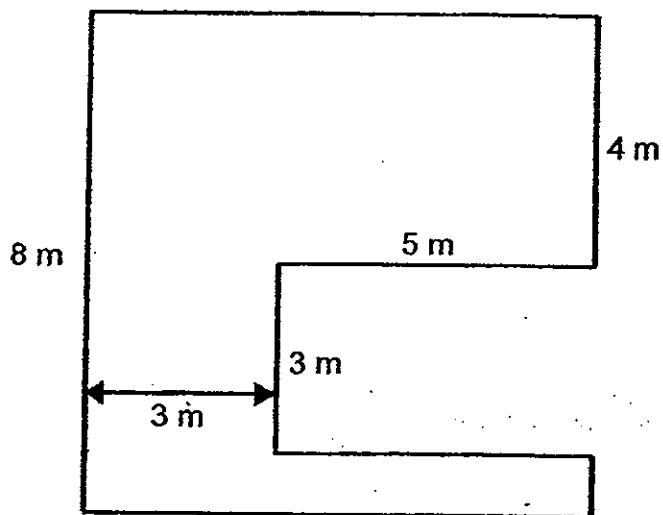
years old

30. A movie marathon lasted for 16 hours and 40 minutes. Given that the movie marathon ended at 14 05 on Friday, at what time and on what day did it start? Give the time in the 24-hour clock.
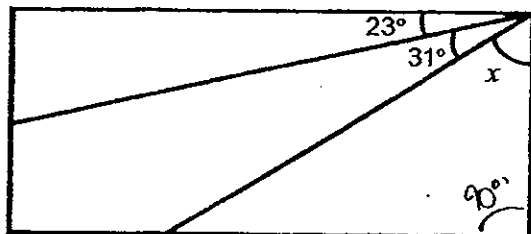
Day:
Time:

31. In the figure below, all lines meet at right angles.
Find the perimeter of the figure.


```
          ┌──────────────────┐
          │                  │ 4 m
      8 m │           5 m    │
          │        ┌─────────┘
          │        │ 3 m
          │←─3 m──→│
          └────────┴─────────┐
                             │
          └──────────────────┘
```

┌─────────────────────────────┐
│   m │
└─────────────────────────────┘

32. The figure below, not drawn to scale, shows a rectangle. Find the value of $\angle x$.

┌─────────────────────────────┐
│   ° │
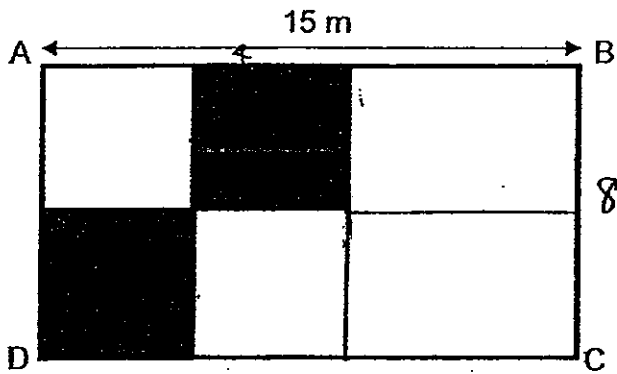└─────────────────────────────┘

33. The figure below is made up of 4 identical squares.
Find the perimeter of the figure.

3 m

| | m |
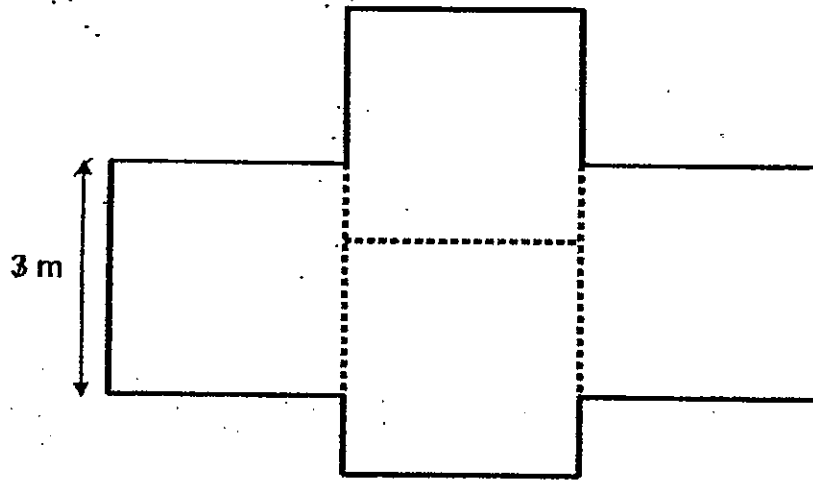
34. 2 identical shaded squares are found inside rectangle ABCD. The area of each shaded square is 16 m^2. The length of the rectangle is 15 m. What is the area of the unshaded part of the figure?

15 m

A ⟵——————————⟶ B

8

D   C

m^2

35. Rani and Tom had an equal number of sweets.
After Rani gave 10 sweets to Tom, Tom had twice as many sweets as Rani.
How many sweets did they have altogether?

15

15³

Name:_____ .(   )

Class: Pr 4:_____

30
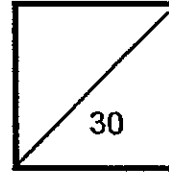
Section C : (30 marks)

Read the following problem sums carefully. 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.

36.   There were twice as many women as men at a funfair. The number of children at the funfair was four times the number of women. Given that the total number of people at the funfair was 2068, how many women were at the funfair?

Ans: _____[3]

16

37. Jenny bought some cloth to make a dress, a blouse and a hat. She used 2 m of the cloth to make the dress. She used $\frac{2}{3}$ m of the cloth to make the blouse.

She used $\frac{1}{4}$ m less cloth to make the hat than the blouse.

(a) How much cloth did she use to make the hat?

(b) What was the length of cloth she bought? Give your answer as a mixed number in its simplest form.

Ans: (a)_____[1]

(b)_____[2]

ıss

38. Gordon jogged from Monday to Thursday. Each day, he ran 200 m more than the day before. He ran a total of 4400 m for the four days. How far did he run on the first day?

Ans: _____ [4]

39. Ling, Dan and Sara had a total of 6576 stamps. After Ling and Sara each received 164 stamps from Dan, all three children had the same number of stamps. How many stamps did Sara and Dan each have at first?

Ans: Sara :_____ , Dan :_____ [4]

15

40. Ali, Ben and Charles had some marbles. Ali had $\frac{1}{3}$ of the marbles. Ben had $\frac{1}{4}$ of the marbles. Charles had 210 marbles.

How many marbles did they have altogether?
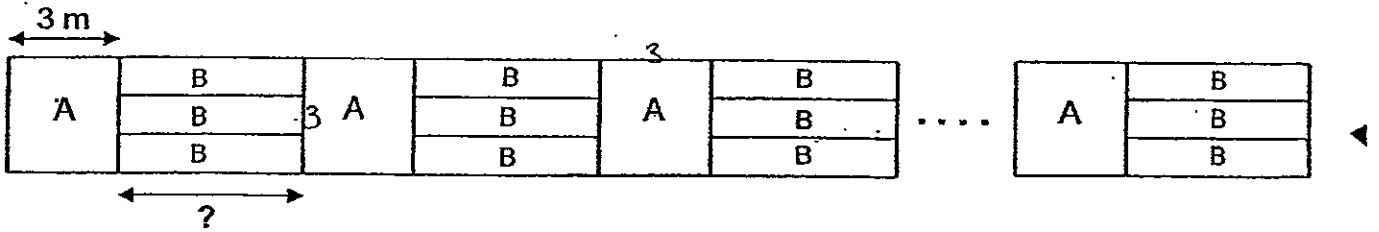
Ans: _____ [4]

41. Caline had 120 beads at first. She gave 35 beads to Danny and a number of beads to Elle. Caline then had $\frac{3}{8}$ of her beads left. How many beads did Caline give to Elle?

Ans: _____ [4]

159

42. Jackie and Ray had the same amount of money at first. Ray then received $70 from his father. After that, Ray donated $160 and Jackie donated $20 to a charity. In the end, Jackie had 6 times as much money as Ray. How much money did Jackie have at first?

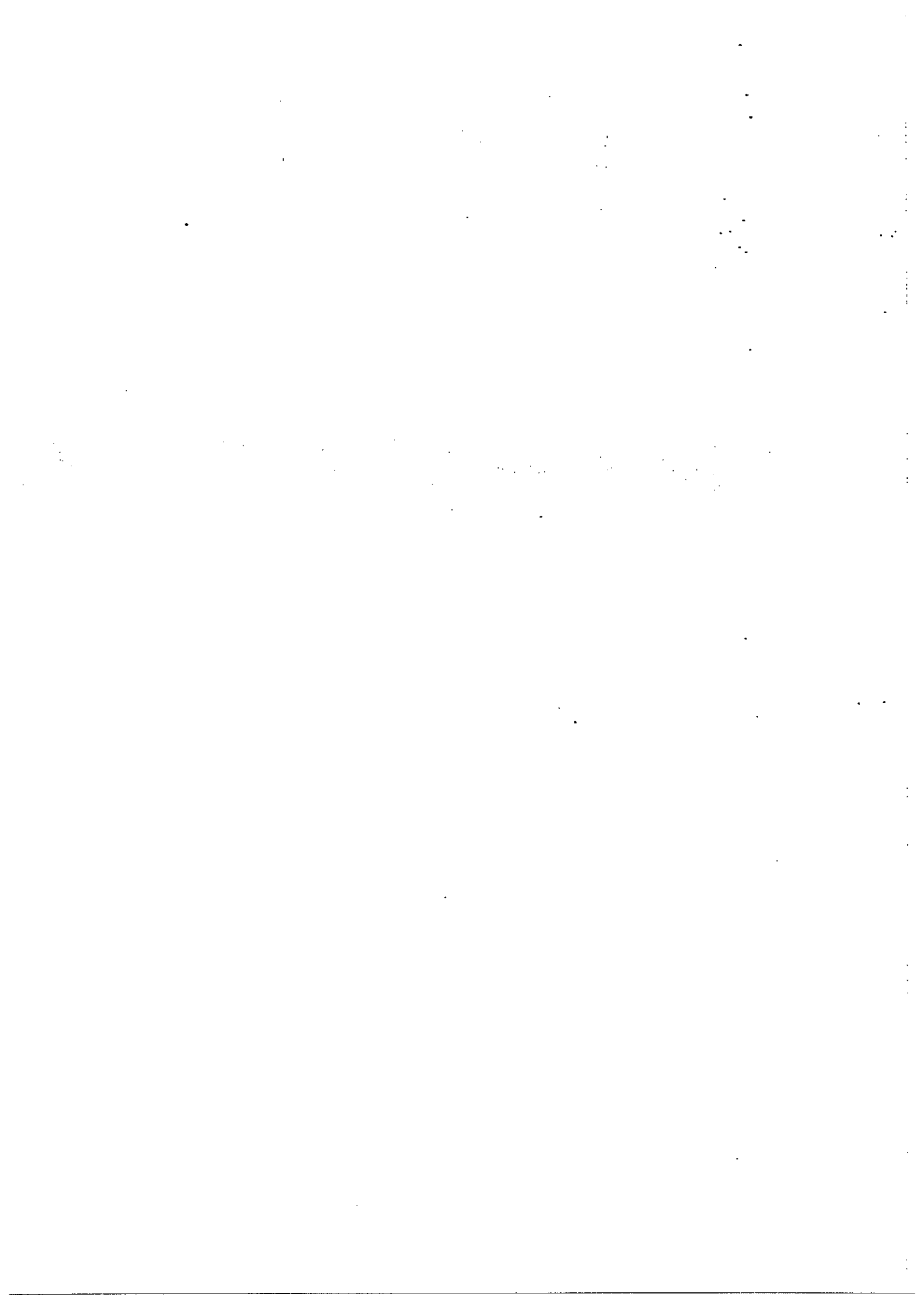Ans: _____ [4]

43. Identical square Tile A and identical rectangular Tile B were used to cover a footpath completely in the pattern shown below. The length of Tile A was 3 m and 9 of them were used to tile the footpath. Given that the total area of the footpath is 216 m², find the length of Tile B.

Ans: _____ [4]

-END OF PAPER-

161

ANSWER SHEET

EXAM PAPER 2012

SCHOOL : HENRY PARK
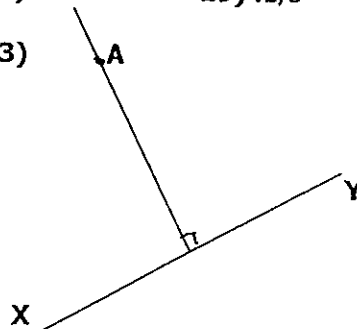**SUBJECT :** PRIMARY 4 MATHEMATICS

TERM : SA1

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
3	4	3	3	2	1	2	2	3	2	1	3	1	2	3

16) 26500   17) 580 tens   18) 762 R1   19) 4 2/3   20) 820s

21) 120°   22) GF//BC   23)
EF//AB

24) School   25) 25cm₂   26) $24   27) 110cm   28) 28 sweets

29) 59 years old   30) Day: Thursday   31) 42m   32) 36°
Time: 05 25

33) 30m   34) 88m₂   35) 60 sweets

End
163

36) 11units → 2068
   1unit → 2068 ÷ 11 = 188
   2units → 188 x 2 = 376 women

37) a) 2/3 = 8/12
   ¼ = 3/12
   8/12 − 3/12 = 5/12
   b) 8/12 + 5/12 = 13/12 = 1$\frac{1}{12}$
   1$\frac{1}{12}$ + 2m = 3$\frac{1}{12}$m

38) 200 x 6 = 1200
   4400 − 1200 = 3200
   3200 ÷ 4 = 800m

39) 164 x 3 = 492
   6575 − 492 = 6084
   3units → 6084
   1unit → 6084 ÷ 3 = 2028
   2028 = 492 = 2520
Sara: 2028 stamps   Dan: 2520 stamps

40) 5units → 210
   1unit → 210 ÷ 5 = 42
   12units → 42 x 2 = 504 marbles

41) 8units of Caline → 120
   1unit of Caline → 120 ÷ 8 = 15
   3u → 15 x 3 = 45
   120 − 45 = 75
   75 − 35 = 40 beads

42) 160 − 70 = 90
   90 − 20 = 70
   70 ÷ 5 = 14
   14 x 6 = 84
   84 + 20 = 104

43) 3 x 3 = 9
   9 x 9 = 81
   216 − 81 = 135
   135 ÷ 9 = 15
   3 x 5 = 15
Ans: 5m