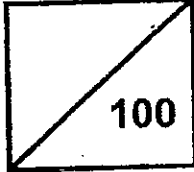# Rosyth School
First Semestral Assessment 2012
Mathematics
Primary 4

Total **100**

Name: _____

Class: Pr 4-_____ Register No. _____   Duration: 1h 45 min

Date: 10 May 2012   Parent's Signature: _____

Instructions to Pupils:

1. Do not open this booklet until you are told to do so.
2. Follow all instructions carefully.
3. This paper consists of 3 parts, Sections A, B and C.
4. For questions 1 to 20 in Section A, shade the correct ovals on the Optical Answer Sheet (OAS).
5. ANSWER ALL THE QUESTIONS.

	Maximum	Marks Obtained
Section A	40	
Section B	40	
Section C	20	
Total	100	

* This paper consists of 19 pages altogether.

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For questions 1 to 20, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct ovals (1, 2, 3 or 4) onto the Optical Answer Sheet provided. Each question carries 2 marks.

1. 45 259 is _____ when rounded off to the nearest hundred.

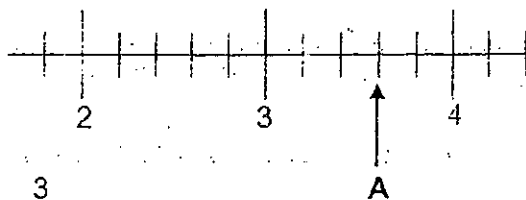   (1) 45 000

    (2) 45 200

    (3) 45 260

    (4) 45 300

2. The common factors of 4 and 12 are _____ and _____.

    (1) 2 and 4

    (2) 3 and 4

    (3) 8 and 24

    (4) 24 and 36

3. 360 × 27 is the same as _____.

    (1) 360 x 20 + 360 x 7

    (2) 360 x 2 + 360 x 7

    (3) 300 x 2 + 60 x 7
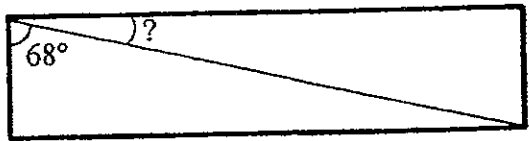
    (4) 3 x 27 + 6 x 27 + 0 x 27

4. What fraction does the letter A represent on the line?

    (1) $\frac{3}{4}$

    (2) $2\frac{3}{4}$
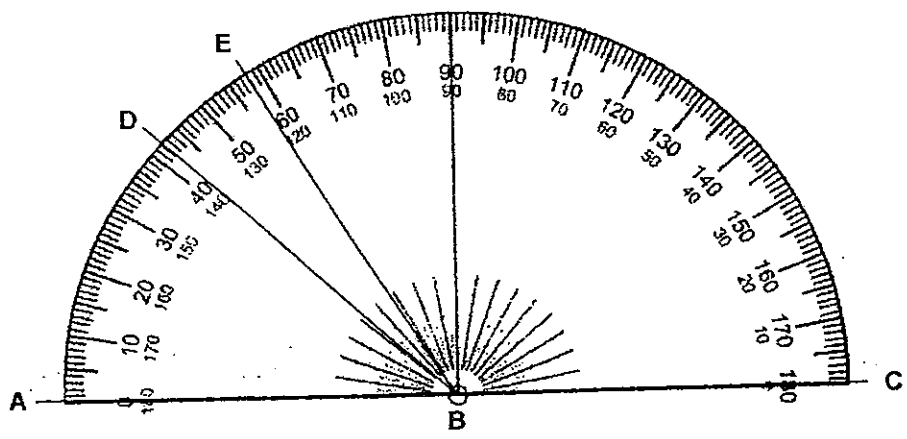
    (3) $3\frac{3}{4}$

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

5. How many eighths are there in $2\frac{1}{4}$?

   (1) 9

   (2) 2

   (3) 18

   (4) 4

6. Find the unknown angle in rectangle below. Figure is not drawn to scale.

   (1) 2°

   (2) 12°

   (3) 22°

   (4) 32°

7. Name the angle that is 138°.

   (1) ∠ABD

   (2) ∠ABE

   (3) ∠CBD

   (4) ∠CED

2

ารร

8. What is the second common multiple of 9 and 18?

    (1) 18
    (2) 2
    (3) 3
    (4) 36

9. Express $3\frac{2}{3}$ as an improper fraction.

    (1) $\frac{8}{3}$

    (2) $\frac{9}{3}$

    (3) $\frac{11}{3}$

    (4) $\frac{18}{3}$

10. What is the sum of $3\frac{1}{4}$ and $2\frac{3}{8}$?

    (1) $5\frac{3}{4}$

    (2) $5\frac{4}{8}$

    (3) $5\frac{5}{8}$

    (4) $5\frac{4}{12}$

11. Ali spent $10 and saved the rest. If he saved $2, what fraction of his money did he saved?

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

(2) $\frac{1}{6}$

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

(4) $\frac{2}{3}$

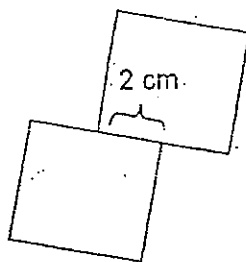12. What is the area of a rectangle of length 14 cm when its breadth is half its length?

(1) 21 cm^2

(2) 28 cm^2

(3) 56 cm^2

(4) 98 cm^2

13. The figure below shows 2 identical squares (not drawn to scale). The area of a square is 36 cm^2. Find the perimeter of the figure.

2 cm

(1) 36 cm
(2) 42 cm
(3) 44 cm
(4) 48 cm

14. Each student is given a set of 180 marbles. 73 of the marbles are red and the rest are blue. If there are 13 students, how many blue marbles are there altogether?

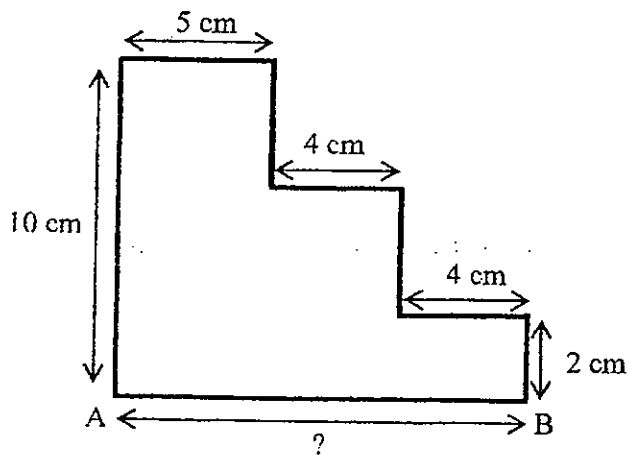   (1) 221

    (2) 949

    (3) 1391

    (4) 2340

15. The figure below is not drawn to scale.

    What is the length of AB?
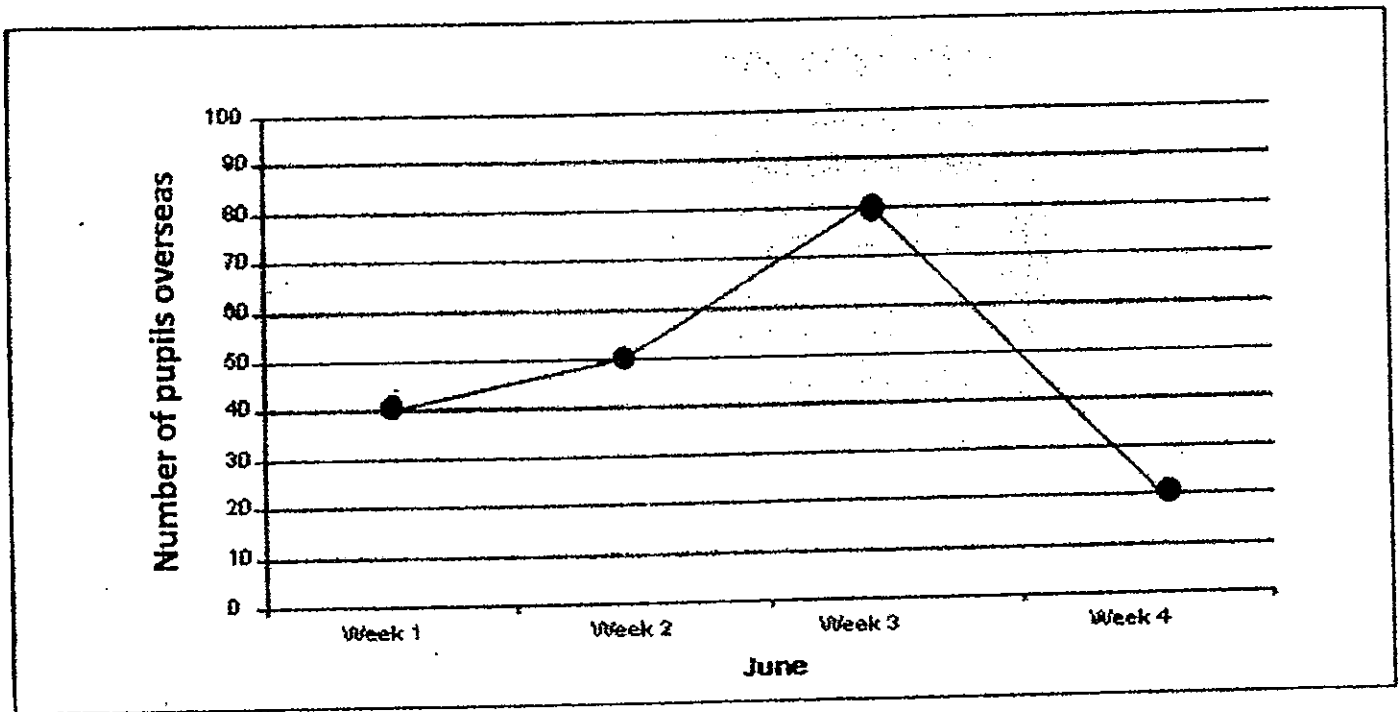
    (1) 8 cm
    (2) 13 cm
    (3) 15 cm
    (4) 25 cm

The line graph below shows the number of pupils who went overseas during the June school holidays. Use it to answer questions 16 to 18.

16. How many more pupils were overseas in week 3 than week 4?

   (1) 10
   (2) 30
   (3) 40
   (4) 60

17. What was the total number of pupils who went overseas in June?

   (1) 80
   (2) 100
   (3) 190
   (4) 220

18. If the total population of pupils was 300, how many pupils did not go overseas in June?

   (1) 100
   (2) 110
   (3) 120
   (4) 130

19. Harry planned to complete all his homework on Saturday.
He wanted to complete $\frac{3}{10}$ of his homework in the morning, $\frac{1}{2}$ of his homework after lunch and the rest after dinner. What fraction of his homework would be completed after dinner?

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

(2) $\frac{2}{5}$

(3) $\frac{3}{5}$

(4) $\frac{18}{3}$

20. EnQi is at the Orchard MRT station. She notices that the North-bound train arrives every 4 minutes and the South-bound train arrives every 6 minutes. If both trains arrived at 8.00 a.m., when would be the next time both the trains arrive at the station again?

(1) 8.02 a.m.
(2) 8.10 a.m.
(3) 8.12 a.m.
(4) 8.24 a.m.

For questions 21 to 40, show your working clearly in the space below each question and write your answer in the answer boxes provided. Give your answers in the units stated. Each question carries 2 marks.

---

21. 76 342 = 7 ten thousands + 6 thousands + ☐ hundreds + 4 tens + 2 ones

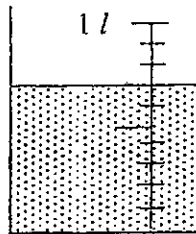What is the number in the box?

22. A 4 digit whole number would be 1 900 when rounded off to the nearest hundred. What is the greatest possible value of the number?

23. Find the number in box below.

$$
\begin{array}{r}
7\ 5 \\
\times\ \ \square \\
\hline
6\ 0\ 0 \\
\hline
\end{array}
$$

8

24. Find the remainder when is 4 809 is divided by 9.

[ ]

25. How many litres of water are there in the beakers shown below? Give your answer as a fraction.
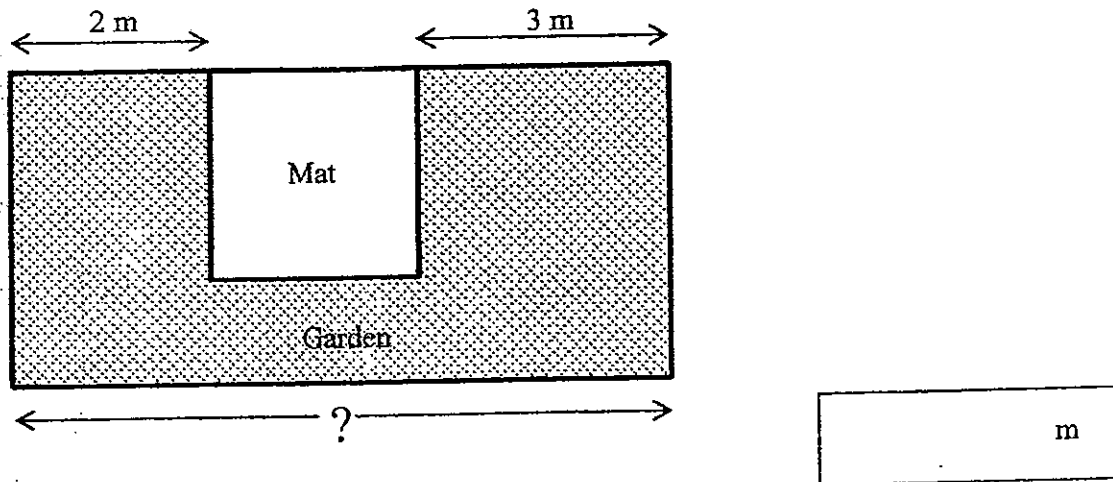

[ ] _l_

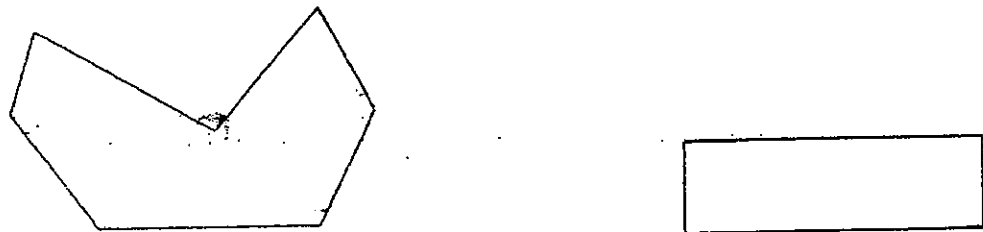26. Write a mixed number to show the fraction of the set of circles shaded.
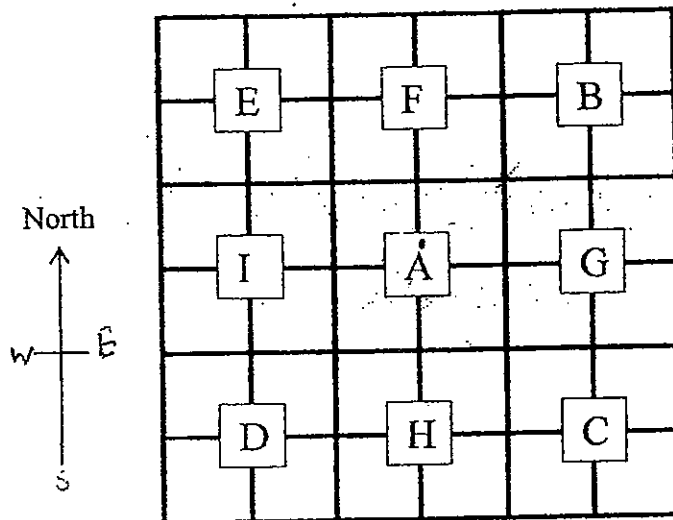

[ ]

27. Find the value of $\frac{4}{7}$ of 35.

[ ]

28. A square mat of length 2 m is placed in a rectangular garden (not drawn to scale) as shown below. Find the length of the garden.

2 m   3 m

Mat

Garden

?

| m |

29. How many angles inside the figure shown below are greater than a right angle?

| |

30.

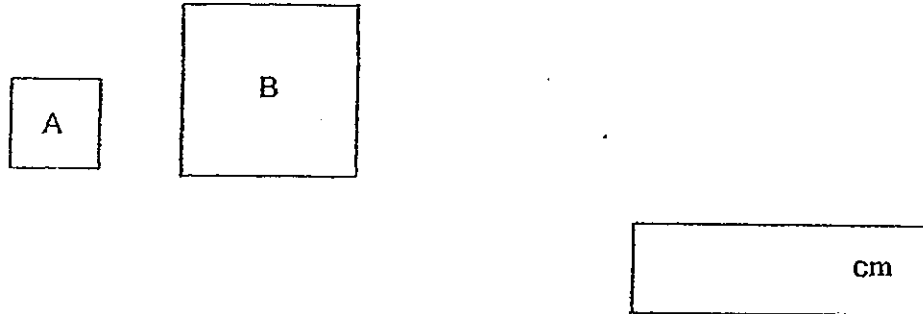| | | | | | |
E		F		B	
North					
I		A		G	
W — E					
D		H		C	

Felicia is at Box A and she is facing Box B. If she makes a three-quarter turn clockwise, which box would she be facing then?

| |

10

83

31. The figure below shows 2 squares (not drawn to scale). The perimeter of Square B is twice the perimeter of Square A. If Square B has a perimeter of 56 cm, find the area of Square A.
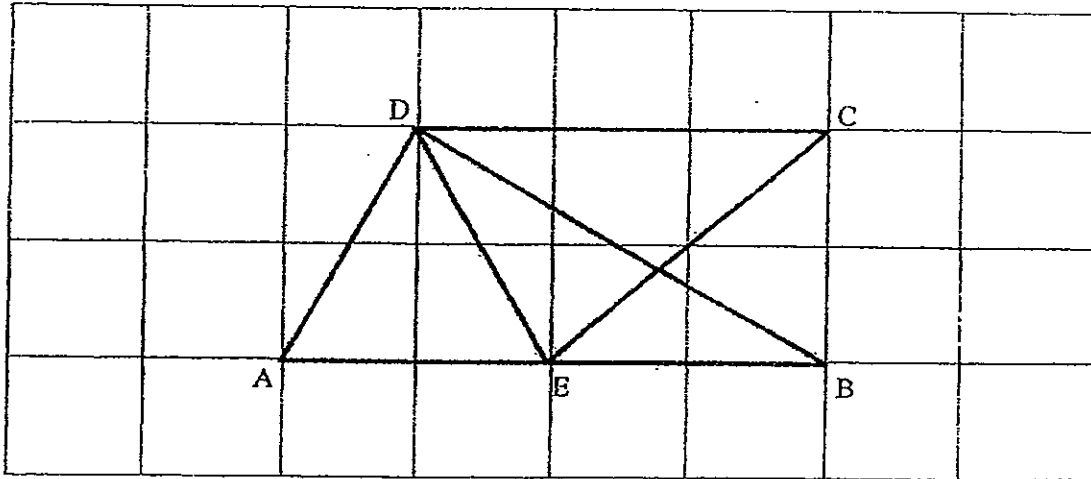
	B
A	

	cm

32. Mary had $\frac{7}{9}$ m of cloth. She cut away $\frac{1}{3}$ m. What is the length of the cloth left?
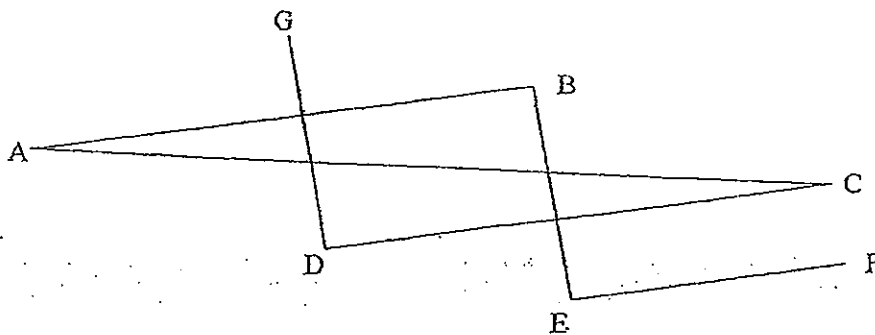
	m
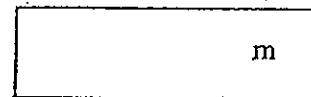
33. Ravi bought 16 candies. He ate 3 candies and gave 7 candies to his friends. What fraction of the candies was left? Give your answer in its simplest form.
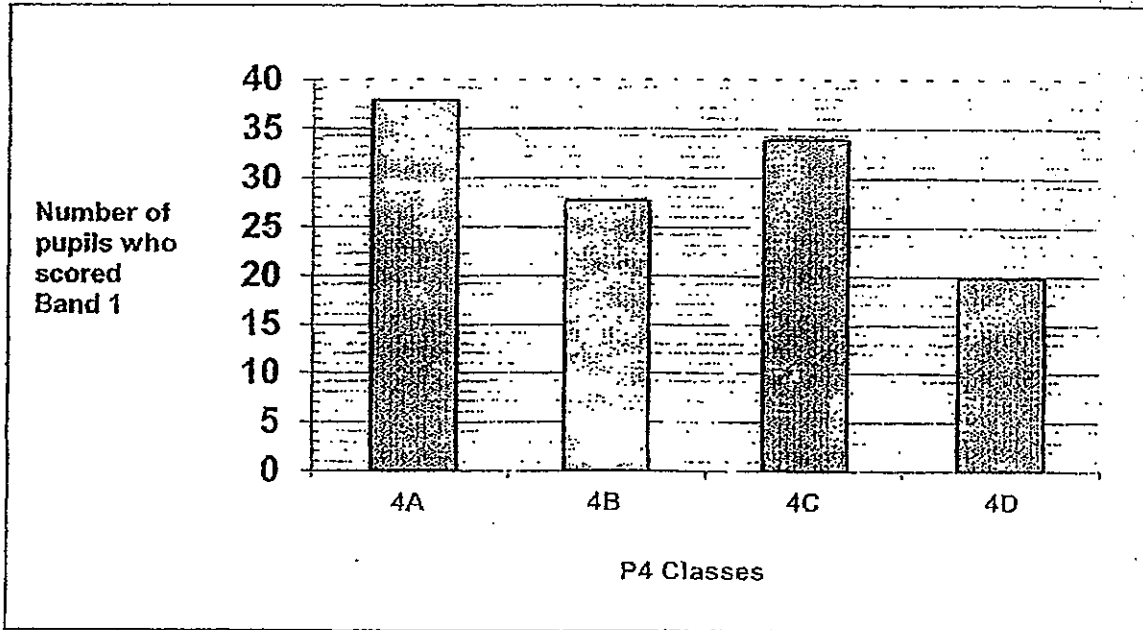

34. Identify the pair of perpendicular lines given in the figure below.

35. In the figure below, how many lines are parallel to line AB?

The bar graph shows the number of pupils who scored Band 1 for Mathematics in 4 primary four classes. Study the graph carefully and answer questions 36 and 37.

Number of
pupils who
scored
Band 1

P4 Classes

36.   Complete the table to show the information given in the bar graph.

Class	4A	4B	4C	4D
Pupils who scored Band 1	38		34	

37.   If there are 168 pupils altogether in these four classes, how many pupils do not have Band 1 in Mathematics?

13

38. Jerry gave $\frac{1}{8}$ of his marbles to his friends and $\frac{1}{4}$ of them to his brother. What fraction of the marbles did he give away?

39. There are 160 puddings in a box. $\frac{5}{8}$ of them are mango puddings and the rest of them are durian puddings. How many durian puddings are there?

40. Farah had some pencils. When Farah tried to pack the pencils into packs of 6, she had a remainder of 5 pencils. When she tried to pack the pencils into packs of 5, she found that she had a remainder of 2 pencils. What is the least number of pencils she had?

For questions 41 to 45, show your working clearly in the space below each question and write your answers in the blanks provided. The marks for each question or part question are given in the brackets.

41. $\frac{1}{4}$ of the people at a school carnival were boys, $\frac{3}{8}$ of them were girls and the rest were adults.

(a) What fraction of the people were adults?

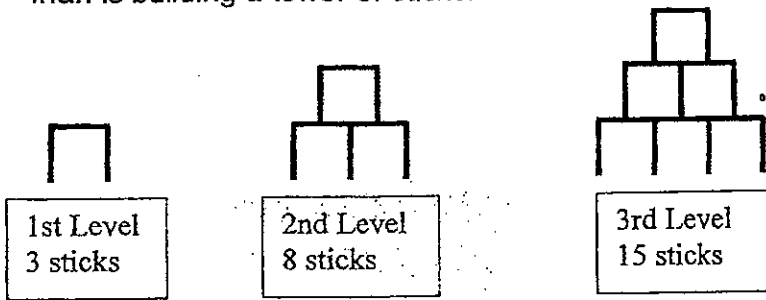(b) If there were 240 boys, how many girls and adults were there altogether?

Answer: (a) _____(2 m)

(b)_____(2 m)

42.	Chandra has 273 beads and Damien has 149 beads. How many beads must Chandra give to Damien in order for both of them to have an equal number of beads?

Answer: _____(4 m)

89

43. Irfan is building a tower of sticks.

| 1st Level 3 sticks | 2nd Level 8 sticks | 3rd Level 15 sticks |

If Irfan wants his tower to reach the 8th level, how many sticks does he need?

Level	No. of Sticks
1	3
2	8
3	15
⋮	⋮
8	?

Answer: _____ (4 m)

44. At a party there were 36 children. The boys were given 3 balloons each and the girls were given 5 balloons each. If a total of 154 balloons were given out, how many balloons were given to the girls at the party?
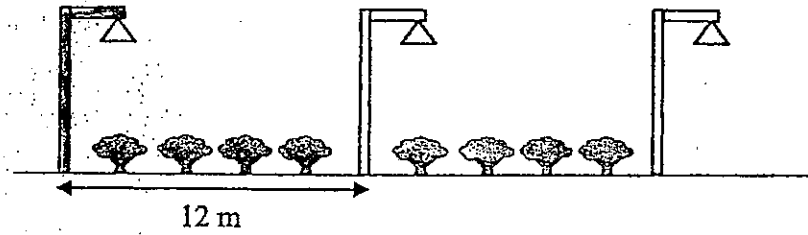
Answer: _____ (4m)

91

45. Lamp posts are installed every 12 m along a road. Between every 2 lamp posts, there are 4 shrubs. Altogether there are 652 shrubs along this road.

a) How many lamp posts are there along this road?

b) What is the length of the road?

12 m

Answer: (a) _____(2 m)

(b)_____(2 m)

ANSWER SHEET

EXAM PAPER 2012

SCHOOL : ROSYTH
SUBJECT : PRIMARY 4 MATHEMATICS

TERM : SA1

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

Q18	Q19	Q20
2	1	3

21)3   22)1949   23)8   24)3   25)7/10L

26)2 3/8   27)20   28)7m   29)5 angles   30)Box B

31)Perimeter of square→28
   Side of square→28÷4 = 7
   Area of square A→7 x 7 = 49cm^2

32)1/3→3/9
   7/9 − 3/9 = 4/9M

33)16/16 − 3/16 = 13/16
   13/16 − 7/16 = 6/16
   6/16÷2 = 3/8

34)BD⊥DA

35)2 pairs

36) 28 / 20

37) Altogether→38 + 28 = 66
66 + 34 = 100
100 + 20 = 120
168 − 120 = 48 pupils

38) ¼ →7/8
2/8 = 1/8 = 3/8 marbles

39) 1/8→160÷8 = 20
20 x 3 = 60 durian puddings

40) 17 pencils.

41) a) 2/8 + 3/8 = 5/8
8/8 − 5/8 = 3/8
The fraction is 3/8

b) 2u→240
1u→240÷2 = 120
6u—120 6 = 720
There were 720 girls and adult altogether.

42) Total number of beads→273 + 149 = 422
422÷2 = 211
211 − 149 = 62

Check
273 − 62 = 211
149 + 62 = 211

43) He could need 80 sticks.

44) 36 x 5 = 180
180 − 154 = 26
5 − 3 = 2
26÷2 = 13 (boys)
36 − 13 = 23 (girls)
23 x 5 = 115

45) a) 652÷4 = 163
163 + 1 = 164

b) 163 x 12 = 1956

40. $22 x 10 = $220
    $220 + $85 = $305
    139 ÷ 10 = 13R9
    13 x $305 = $3965
    9 x $22 = $198
    $3965 + $198 = $4163

41. 80 ÷ 5 = 16
    16 x 4 = 64
    64 − 34 = 30
    30 ÷ 3 = 10
    16 − 10 = 6 pens

42. 2040 + 200 = 2240
    2240 ÷ 4 = 560 stamps

43. (a) 3 x 15 = 45
        2 x 19 = 38
        38 + 45 = 83 sweets
    (b) 83 x 2 = 166
        166 + 4 = 170
        170 ÷ 5 = 34 packets of sweets

End
143