RAFFLES GIRLS' PRIMARY SCHOOL

SEMESTRAL ASSESSMENT 1
2013

Your Score Out of **100** marks	
Parent's Signature	

Name : _____ ( ) Class: P4__

9th MAY 2013 MATHEMATICS Duration: 1 h 45 min

SECTION A (25 marks)

Question 1 to 5 carry 1 mark each. Question 6 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 your answer (1, 2, 3 or 4) on the OAS provided.

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1. In 82 916, the digit 2 is in the _____ place.

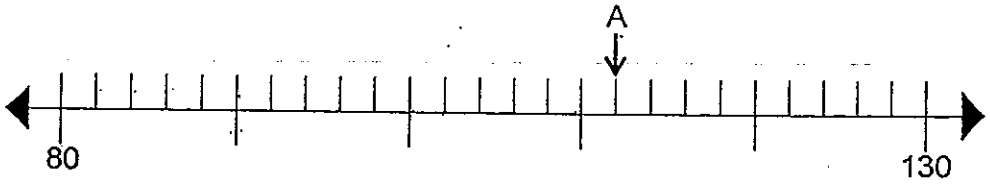
   (1) ones

   (2) tens

   (3) hundreds

   (4) thousands

2. Study the number line below.



   What is the number represented by A?

   (1) 110

   (2) 112

   (3) 120

   (4) 122

3. Multiply 384 by 7.

(1) 377

(2) 391

(3) 2 668

(4) 2 688

4. Eliza has 25 boxes of paper clips. There are 69 paper clips in each box.
How many paperclips does Eliza have altogether?

(1) 1 380

(2) 1 725

(3) 1 750

(4) 2 070

5. Divide 5 101 by 6. What is the quotient?

(1) 75
(2) 85
(3) 750
(4) 850

6. 10 m 1 cm is the same as _____ cm.

(1) 101 cm

(2) 1 001 cm

(3) 1 010 cm

(4) 10 001 cm

7. 70 080 g is the same as _____.

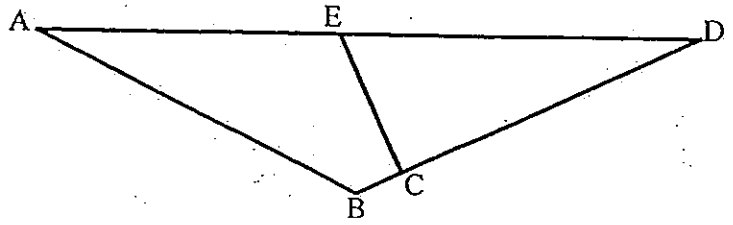
(1) 7 kg 8 g

(2) 7 kg 80 g

(3) 70 kg 8 g

(4) 70 kg 80 g

8. Which of the lines in the figure below is perpendicular to BD?



(1) AB

(2) AD

(3) EC

(4) CD

9. Express $\frac{31}{4}$ as a mixed number.

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

(2) $7\frac{3}{4}$

(3) $30\frac{1}{4}$

(4) $31\frac{1}{4}$

10. What is $\frac{7}{8} - \frac{1}{2}$?

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

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

(3) $\frac{4}{8}$

(4) $\frac{6}{8}$

11. Maggie had 74 beads. 28 of the beads were pink and the rest were white. Maggie's mother gave her another 39 white beads.
How many white beads did Maggie have altogether?

(1) 46

(2) 85

(3) 113

(4) 160

12. How many common factors are there for 24 and 60?
(1) 6

(2) 5

(3) 3

(4) 4

13. What is the difference between the 3rd multiple of 6 and 4th multiple of 7?

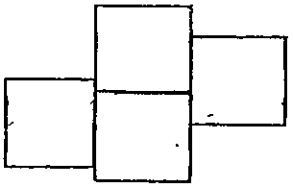
(1) 10

(2) 18

(3) 28

(4) 36

14. The figure below is made up of four squares.
The area of each square is 25 cm^2.



What is the perimeter of the figure?

(1) 40 cm

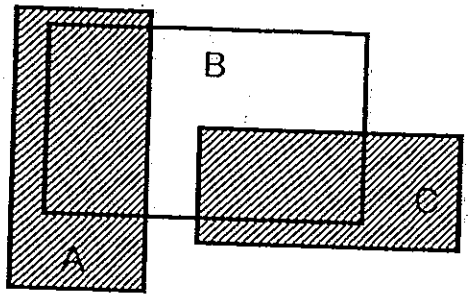
(2) 50 cm

(3) 70 cm

(4) 80 cm

15. Three rectangles (A, B and C) overlap each other as shown in the figure below. Rectangle A covers $\frac{1}{3}$ of Rectangle B and rectangle C covers $\frac{1}{4}$ of Rectangle B.

What fraction of Rectangle B is **not** covered?



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

(2) $\frac{5}{7}$

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

(4) $\frac{7}{12}$

SECTION B (40 marks)

Question 16 to 35 carry 2 marks each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale. Answers in fractions must be expressed in the simplest form. Marks will be awarded for relevant working.

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16. Write twelve thousand, nine hundred and six in figures.

Ans: _____

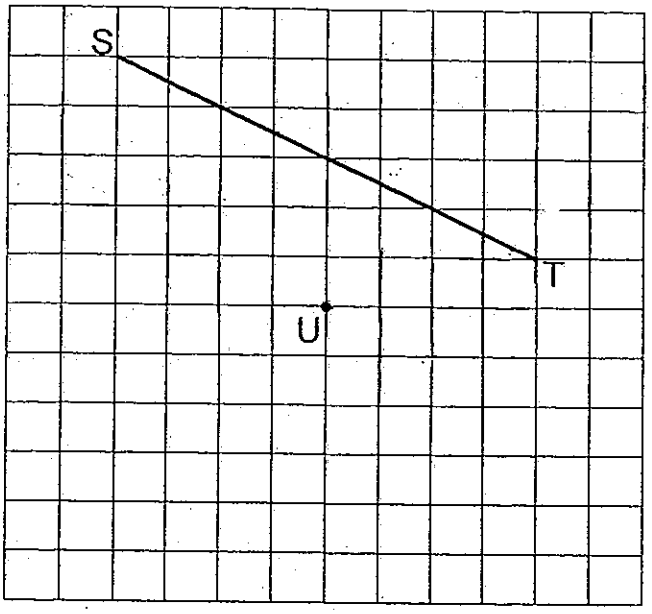
17. Find the value of 902 x 34.

Ans: _____

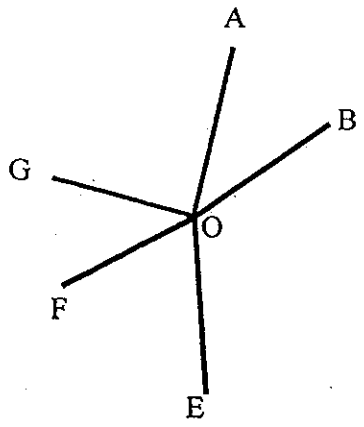
18. The perimeter of a rectangle is 48 m.
The length is thrice its breadth.
What is the breadth of the rectangle?

Ans: _____ m

19. Draw a line parallel to Line ST passing through point U.

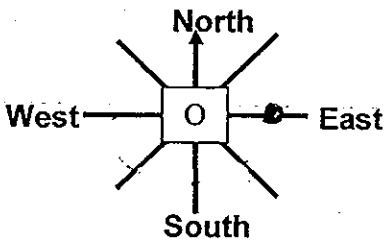


20. All the lines in the figure shown below meet at the center, Point O. Name the right angle in the figure below.



Ans: ∠_____

21. Peter is standing at Point O and facing East. He then made a 225° turn in a clockwise direction. Which direction will he face after the turn?



Ans: _____

22. Arrange the following fractions in ascending order.

$$2\frac{1}{3} \ , \ 1\frac{4}{7} \ , \ 1\frac{1}{4} \ , \ 2\frac{1}{8}$$

Ans: _____

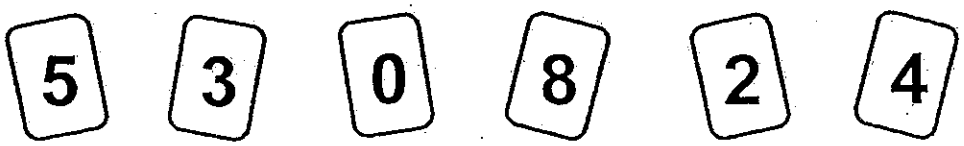
23. Alice had 144 buttons. $\frac{1}{6}$ of them were pink and the rest were red.
How many red buttons did she have?

Ans: __

24. Eric exchanged a $10 note and a $2 note for 24 coins. All the coins had the same value. What was the value of each coin?

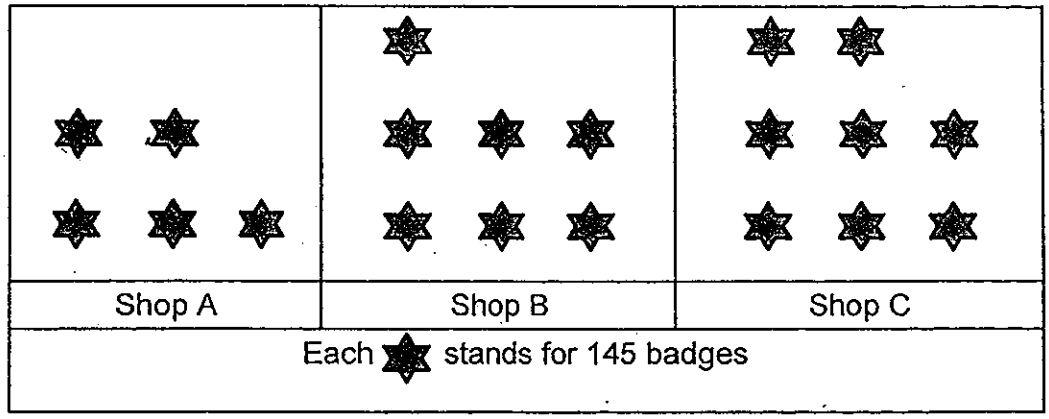
Ans: $__

25. Using five out of the six cards given below, form the smallest 5-digit **even** number. (Do not start with 0)



Ans:_____

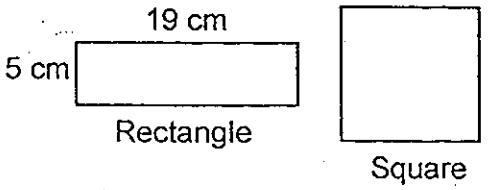
26. The picture graph below shows the number of badges sold at three shops.



Find the total number of badges sold at the three shops.

Ans:_____

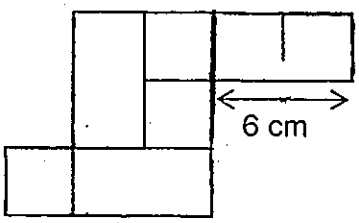
27. The rectangle and the square shown below have the same perimeter.



Find the length of each side of the square.

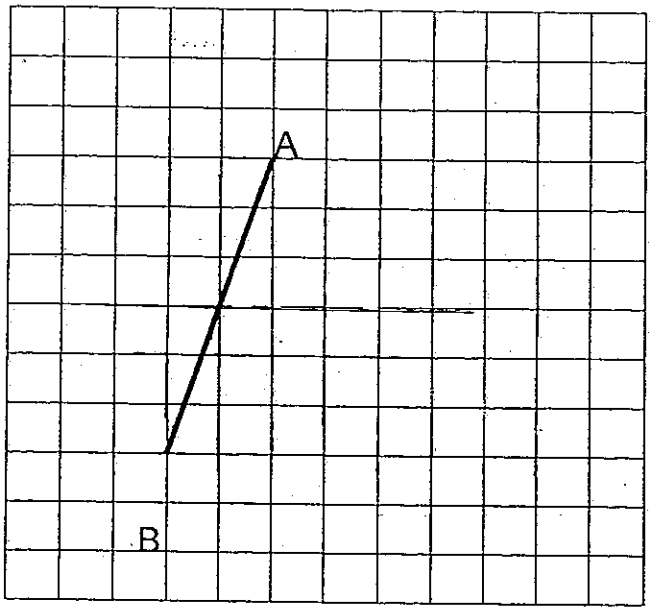
Ans: _____cm

28. The figure below is made up of three identical rectangles and three identical squares.
Find the perimeter of the figure.

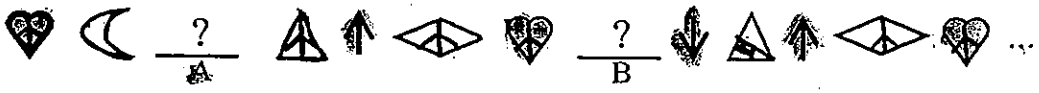


Ans: _____cm

29. Draw a line perpendicular to AB in the grid below from A.



30. Complete the following pattern:

...  ...

A

B

Ans: A is_____

B is_____

31. What is the missing number in the box?

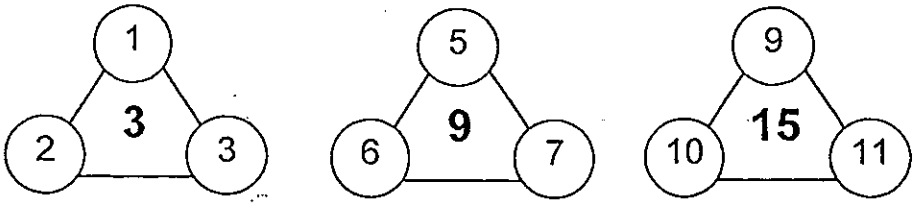
$$\frac{22}{6} = 3\frac{\boxed{?}}{3}$$

Ans: _____

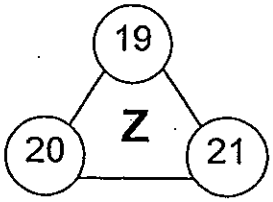
32. Express $2\frac{1}{3} + 2\frac{1}{2}$ as a mixed number.

Ans: _____

33. Study the figures given below.



What is the number represented by Z?



Ans: _____

34. $\frac{4}{9}$ of the marbles are blue and $\frac{1}{5}$ of the remainder are yellow. The rest are green. What fraction of the marbles is green?

Ans:_____

35. Mr. Ong bought $\frac{4}{5}$ kg of sugar on Sunday. He used $\frac{1}{5}$ kg of sugar on Monday and $\frac{1}{10}$ kg more on Tuesday than on Monday. How much sugar had he left?

Ans:_____kg

SECTION C (35 marks)

For question 36 to 44, show your working clearly in the space provided below each question and write your answer with suitable units in the spaces provided. All diagrams are not drawn to scale. Answers in fractions must be expressed in the simplest form. Marks will be awarded for relevant working. The number of marks available is shown in brackets [ ] at the end of each question or part-question.

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36. Helen has 462 stamps. Ken has 728 stamps.
How many stamps must Ken give to Helen so that they have the same number of stamps?

Ans: _____[3]

37. Samuel bought some hotdogs. He used $\frac{1}{4}$ of them on Friday for his BBQ and $\frac{1}{2}$ of the remaining hotdogs on Saturday. On Sunday, he used the remaining 96 hotdogs. How many hotdogs did he use on Friday?

Ans: _____[3]

38. Yani wants to divide 48 blue marbles and 80 yellow marbles equally and place them into some bags.
The number of blue and yellow marbles in each bag is different.
All the bags must have the same number of marbles of each colour.

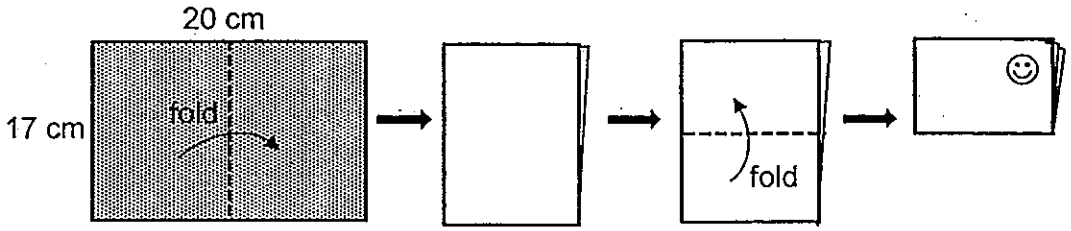
(a) What is the greatest number of bags of marbles Yani can get?

(b) What is the total number of marbles in each bag?

Ans: (a)_____[2]

(b)_____[1]

39. Eien has a piece of rectangular paper measuring 20 cm by 17 cm.
He folded the paper into halves two times as shown below.



Eien then made two cuts each measuring 5 cm as shown in Figure 1 below.

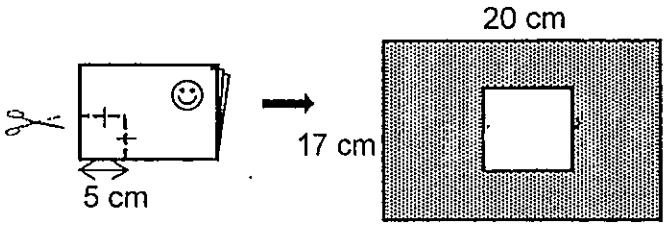


Figure 1 Figure 2

Find the remaining area of the paper as shown in Figure 2.

Ans: _____ [4]

40. Joanne saves 50 cents in week 1 and $1 in week 2.
Every week, she saves 50 cents more than the previous week.
How much will she have at the end of week 6?

Ans:_____ [4]

41. Daniel bought 9 bags of cookies. In each bag, there were 15 cookies.
He then packed all the cookies into 3 boxes.
The first box contained twice the number of cookies as the second box.
The third box contained 41 less cookies than the second box.
How many cookies were there in the second box?

Ans: _____ [4]

42. Anna has $130. She wants to buy an equal number of books and pens at a book fair. A book cost $7 each and a pen cost $2 each.
a) What is the greatest total number of books and pens she can buy?
b) How much more money will she need if she wants to buy another 4 more books?

Ans: (a) _____[2]

(b)_____[2]

43. Jason and Alex are stamp collectors. $\frac{1}{4}$ of Jason's number of stamps is the same as $\frac{2}{5}$ of Alex's number of stamps. If Jason has 108 more stamps than Alex,

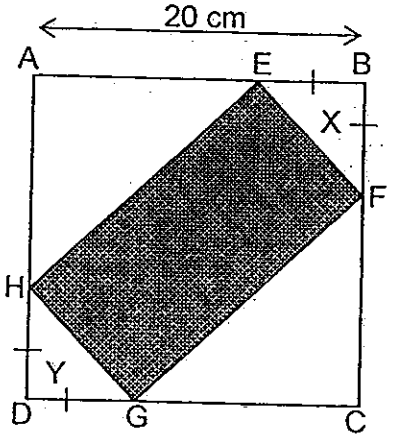
a) How many stamps does Alex have?

b) How many stamps must Jason give Alex for both of them to have an equal number of stamps?

Ans: a)_____[3]

b)_____[2]

44. In the figure below, ABCD is a 20 cm-square and EFGH is a rectangle. The total area of triangles X and Y is 64 cm^2. Find the area of rectangle EFGH.



Ans:_____[5]

-End of Paper-

Please check your work carefully ☺

Setters: Mr. Johnson Ong
Ms. Aubrey Ong

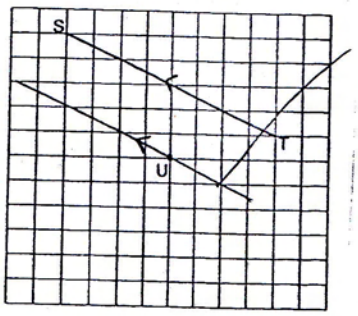
ANSWER SHEET

EXAM PAPER 2013
SCHOOL : RAFFLES GIRLS'
SUBJECT : PRIMARY 4 MATHEMATICS

TERM : SA1

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

16)12906 **17)30668** **18)6m** **19)**

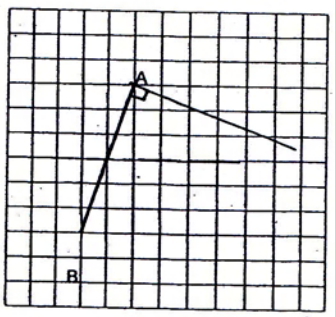


20)∠GOA **21)North-West**

22)1¼, 1 4/7, 2 1/8, 2 1/3 **23)120**

24)$0.50 **25)20348** **26)$2900**

27)12cm **28)48cm** **29)**



30)A is ↓ B is (

31)2

32)2 5/6

33)30

34)4/9

35)3/10 kg

36)462 + 728 = 1190
190÷2 = 595
595 – 462 = 133
Ken must give 133 stamps to Helen.

37)96÷3 = 32
32 x 2 = 64

38)a)16 bags
b)8

39)20 x 17 = 340
10 x 10 = 100
340 – 100 = 240
The remaining area is 240cm_2

40)W1→50c
W2→$1
W3→$1.50
W4→$2
W5→$2.50
W6→$3
$1.50 + $4.50 + $3 = $9.00

41)135 + 41 = 176
176÷4 = 44
There are 44 cookies in the second box.

42)a)7 + 2 = 9
130÷9 = 14 R4
14 x 2 = 28
She can buy 28 bookes and pens.

b)7 x 3 =21
21 + 7 = 28
28 – 4 = 24
She would need $24

43)a)3u→108
1u→108÷3 = 36
5u→36 x 5 = 180

b)108÷2 = 54

44)64÷2 = 32

32 x 2 = 64

64 = 8 x 8

20 – 8 = 12

12 x 12 = 144

144 + 64 = 208

20 x 20 = 400

400 – 208 = 192

The area is 192cm_2