



RAFFLES GIRLS' PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 2
2007

Your Score Out of 100 marks		
	Class	Level
Highest score		
Average score		
Parent's Signature		

Name : _____ () Class: P4

24 Oct 2007 MATHEMATICS Att: 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.

1. In 69 735, the digit 6 is in the _____ place.

- (1) tens
- (2) hundreds
- (3) thousands
- (4) ten thousands

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2. 9099 rounded off to the nearest ten is _____.

- (1) 9 000
- (2) 9 090
- (3) 9 100
- (4) 10 000

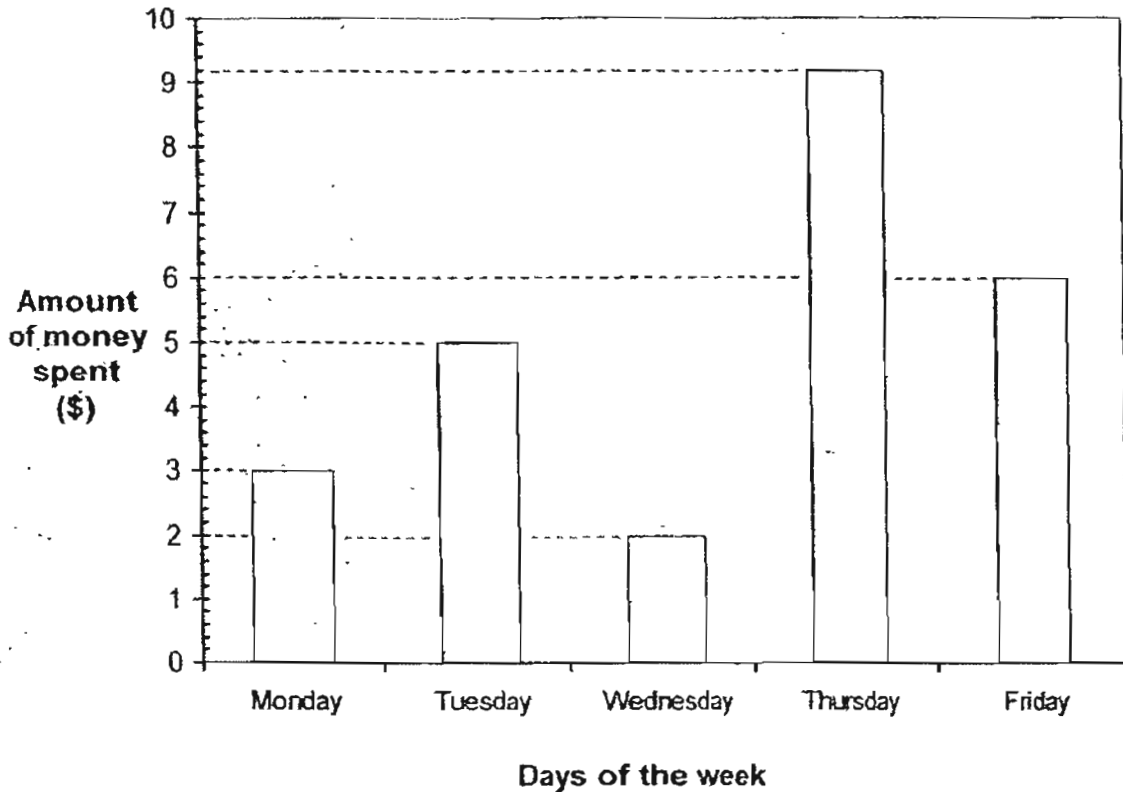
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3. Leon reached the library at 1415.
He stayed there for 1 hour 45 minutes.
At what time did he leave the library?

- (1) 1230
- (2) 1500
- (3) 1550
- (4) 1600

455
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The following graph shows the amount of money spent by Peter from Monday to Friday.
Study it carefully and answer Questions 4 and 5.



4. How much ^{more} money did Peter spend on Thursday than on Tuesday?

- (1) \$4.00
- (2) \$4.10
- (3) \$4.20
- (4) \$4.30

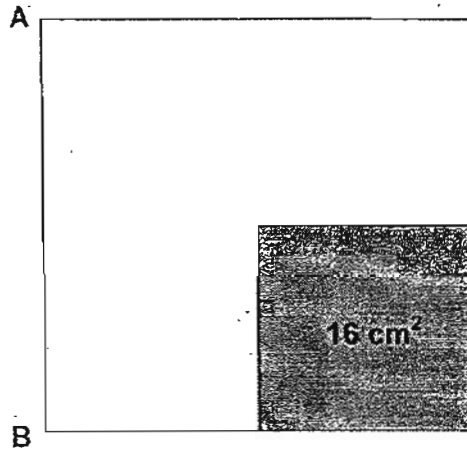
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5. If Peter's weekly allowance is \$30, how much money did he save for the week?

- (1) \$4.70
- (2) \$4.80
- (3) \$4.90
- (4) \$5.00

456
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6. The figure below is made up of 2 squares.
 The area of the shaded part is 16 cm^2 .
 Given that the area of the bigger square is 4 times the area of the smaller square, find the length of AB.



- (1) 8 cm
 (2) 16 cm
 (3) 24 cm
 (4) 32 cm

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7. Jaime had \$2.95 in her wallet.
 Which of the following options gives the correct number of 20-cent and 5-cent coins she can have?

- (1) 10 20-cent and 95 5-cent coins
 (2) 14 20-cent and 1 5-cent coins
 (3) 14 20-cent and 3 5-cent coins
 (4) 14 20-cent and 15 5-cent coins

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8. Which one of the following fractions is not equivalent to $\frac{3}{4}$

~~(1)~~ $\frac{6}{8}$

(2) $\frac{9}{12}$

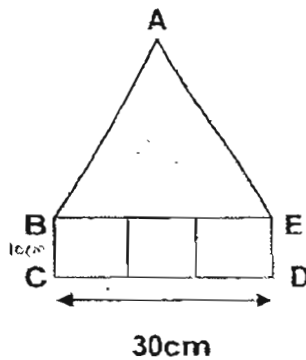
~~(3)~~ $\frac{12}{15}$

(4) $\frac{15}{20}$

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9. ABCDE below is made up of an equilateral triangle and 3 similar squares.

Given that CD is 30cm, what is the perimeter of the figure?



~~(1)~~ 60 cm

(2) 80 cm

~~(3)~~ 110 cm

(4) 150 cm

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10. How many sixths are there in $3\frac{1}{2}$?

~~(1)~~ 7

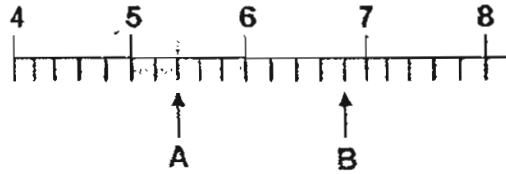
(2) 14

~~(3)~~ 21

(4) 28

(458)

11. Which of the following answer is the correct estimate for the product of A and B?



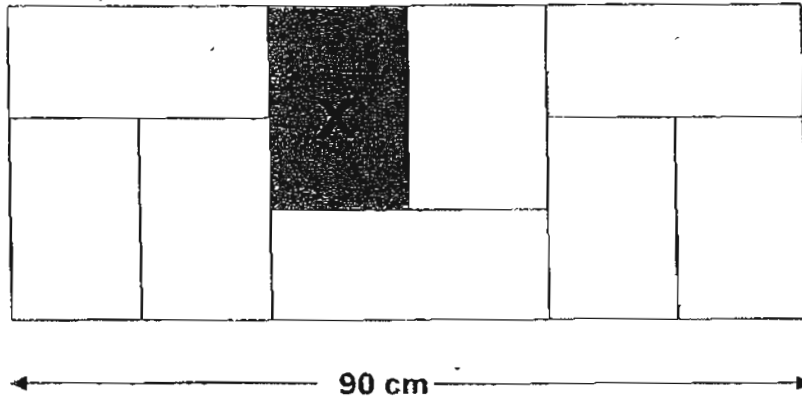
- (1) $6 \times 7 = 42$
(2) $5 \times 7 = 35$
(3) $5 \times 6 = 30$
(4) $6 \times 6 = 36$
- ()
12. When a number is divided by 8, the quotient is 120 and the remainder is 4.
What is this number?

- (1) 928
(2) 960
(3) 964
(4) 992
- ()

13. Ariel had \$60.
She spent \$23.55 on a pair of shoes and \$17.35 on a pair of glasses.
How much money had she left?

- (1) \$19.10
(2) \$36.45
(3) \$40.90
(4) \$42.65
- ()

14. The figure below is made up of 9 identical rectangles.
Find the shaded area marked X.



- (1) 180 cm²
 (2) 360 cm²
 (3) 450 cm²
 (4) 648 cm²

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15. Mary is 5 years 2 months. Her brother is 2 years 2 months. How many months older is Mary than her brother?

- (1) 22 months
 (2) 24 months
 (3) 36 months
 (4) 88 months

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END OF SECTION A

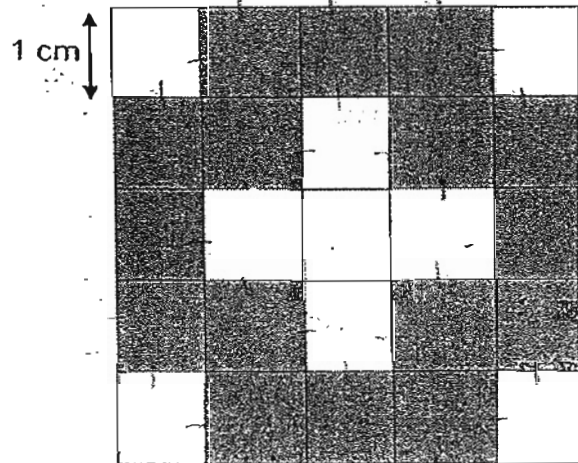
SECTION B (40 marks)

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.

16. Find the value of 31×700

Ans: _____

17. The figure below is made up of identical squares.
Find the perimeter of the shaded region.



Ans: _____ cm

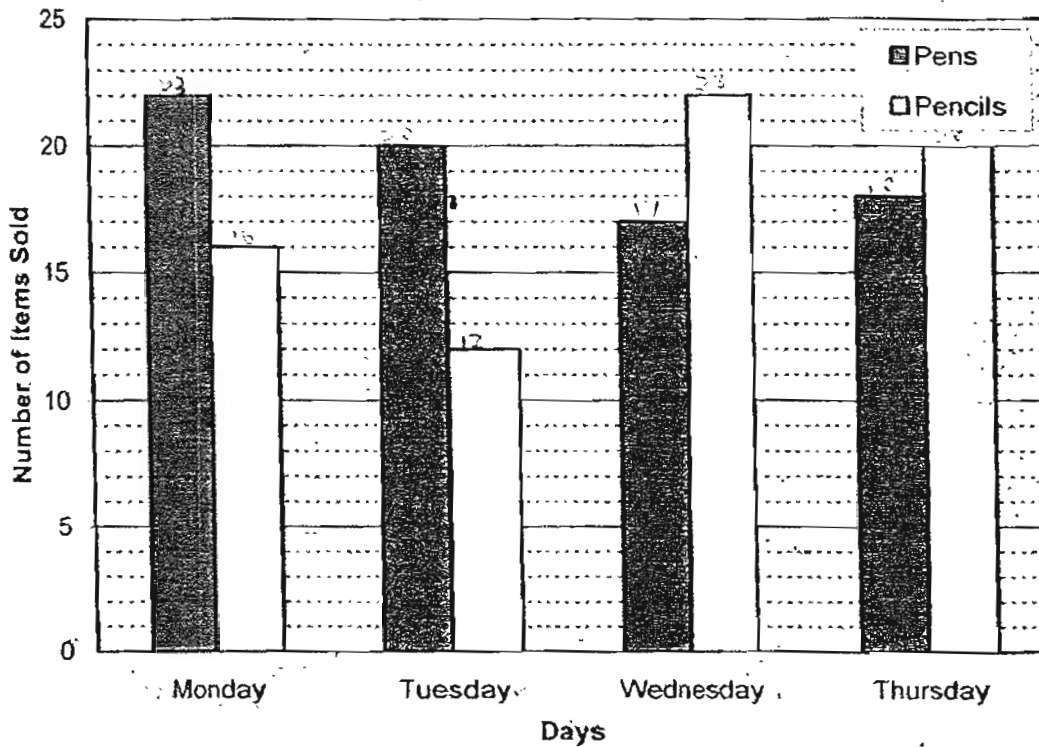
18. A 5-litre container is $\frac{3}{10}$ full of water.
How much **more** water will be needed to fill up the container completely?
(Express your answer in millilitres)

Ans: _____ ml

The following graph shows the number of pens and pencils Mary sold from Monday to Thursday.

Each pen costs \$2.50 and each pencil costs \$1.00.

Study it carefully and answer Questions 19 and 20.



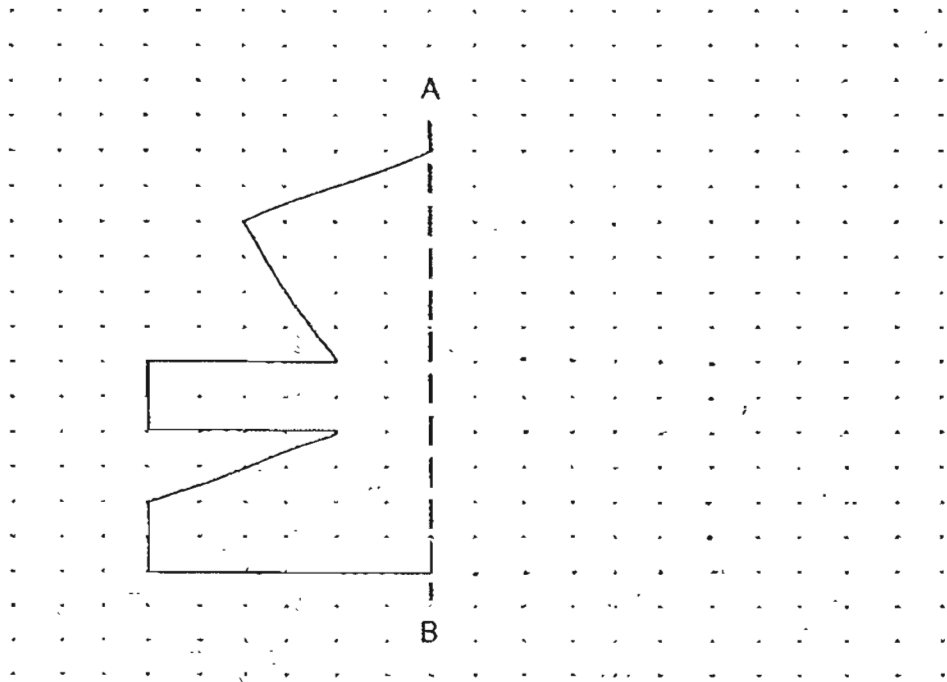
19. How many more pencils did Mary sell on Wednesday as compared to Tuesday?

Ans: _____

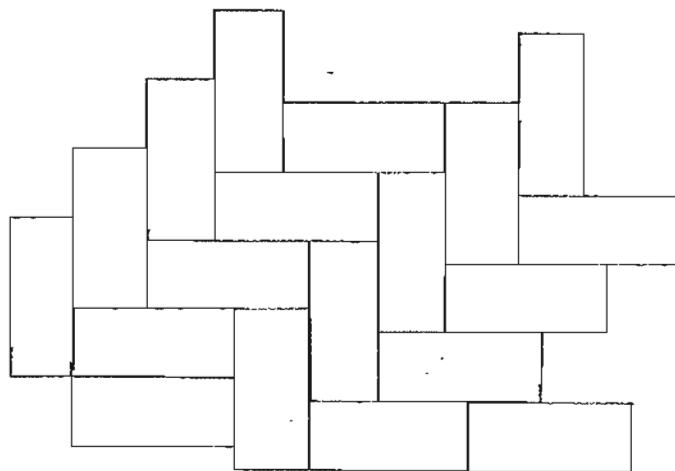
20. Mary earns \$60 on Friday.
Given that she had sold 20 pens, how many pencils did she sell on that day?

Ans: 462

21. The figure below is an incomplete symmetric figure.
 The dotted line AB is the line of symmetry.
 Complete the figure by tracing it on the square grids.



22. Study the tessellation below.
 Shade the two unit shapes that are tessellated wrongly.



23. Four numbers are given below.

Find the difference between the largest and smallest number.

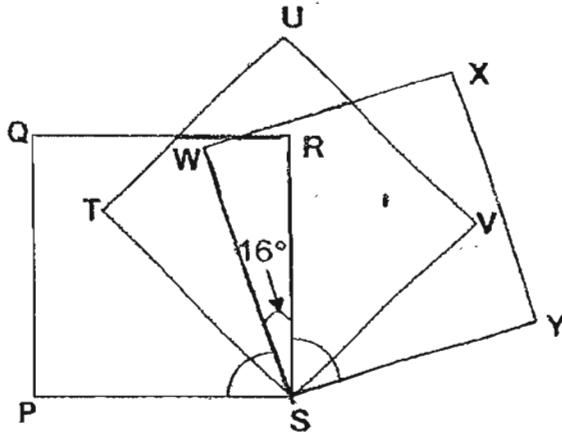
$$5.49 \quad 5\frac{4}{10} \quad 5\frac{9}{1000} \quad 5.409$$

Ans: _____

24. Write the numeral for 5 tens 20 ones and 6 hundredths.

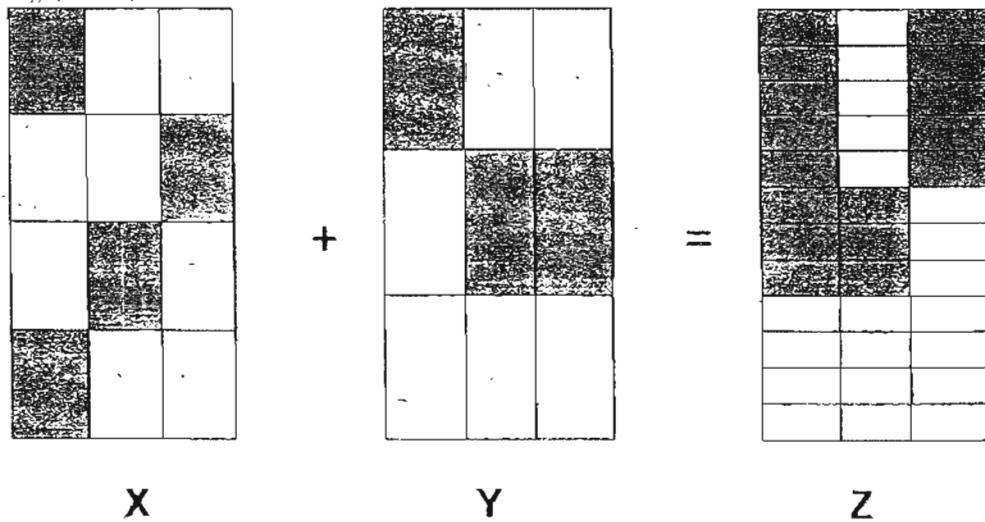
Ans: _____

25. The figure below shows three identical squares PQRS, STUV, and SWXY. Find the sum of $\angle RSY$ and $\angle WSP$.



Ans: _____°

26. Three identical rectangles (Figures X, Y and Z) are each divided into equal parts as shown below. The shaded parts represent a fraction for each figure.



How many **more** rectangles in Figure Z must be shaded to show the sum of the fractions represented by Figures X and Y?

Ans: _____ 465

27. Add 3445 to 1644. Round off the answer to the nearest tens.

Ans: _____

28. I am a number between 10 and 20.
I am also a multiple of 4.
When I am divided by 5, the remainder is 1.
What number am I?

Ans: _____

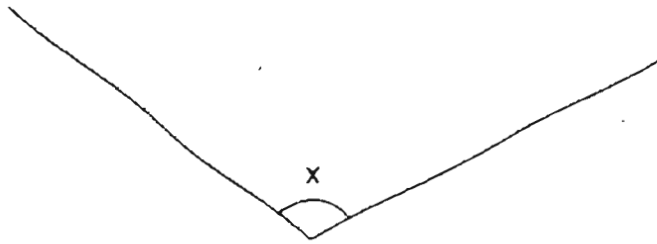
29. 4 similar marbles have a total mass of 48 g.
2 similar pebbles have a total mass of 32 g.
What is the total mass of 80 such marbles and 4 such pebbles?

Ans: _____ g

30. Gabriel worked for 5 days last week.
Each day, she worked for $5\frac{1}{2}$ hours.
How many hours did she work altogether ?

Ans: _____⁴⁶⁶ hr

31. Measure $\angle x$. Write the answer in the blank provided.

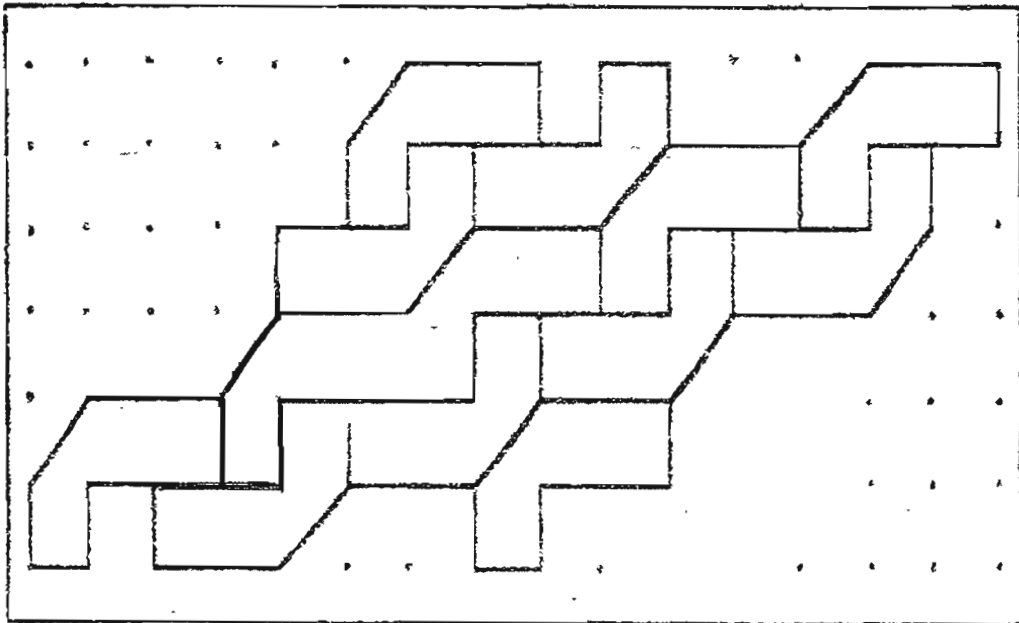


Ans: _____^o

32. Find the value of 2.809×4 .
Round off the answer to 2 decimal places.

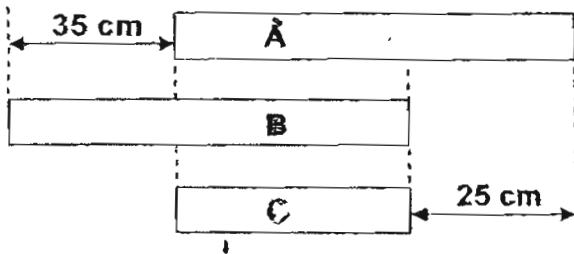
Ans: _____

33. The pattern in the box shows part of a tessellation.



- a) Shade a unit shape in the tessellation. [1m]
b) Extend the tessellation by drawing 2 more unit shapes in the space provided inside the box. [1m]

34. The diagram below shows 3 bars, A, B and C
Given that the total length of the 3 bars is 210cm, find the length of bar C.



Ans: _____ cm

35. Gabby wanted to buy 5 bookmarks and she needed \$2.60 more.
She decided to buy 2 bookmarks instead and had \$4.30 left.
Find the cost of a bookmark.

Ans: \$ _____

Name: _____ () Class: P4 _____

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 or ratio 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.

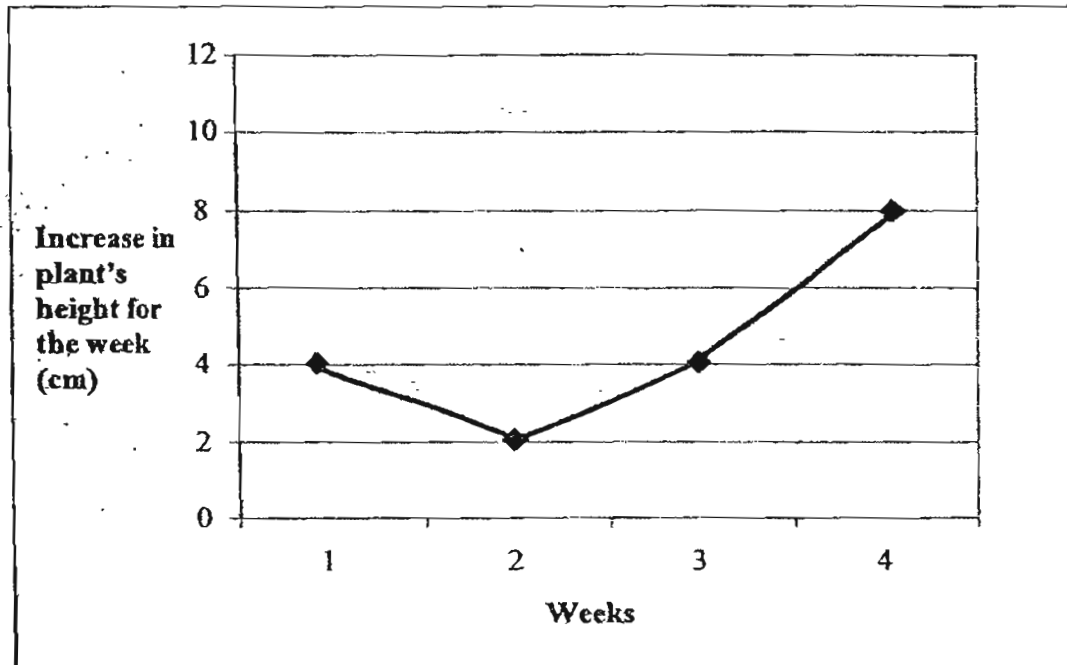
36. Sonny has 5 times as many stamps as Roy.
They have 1500 stamps altogether.
How many **more** stamps does Sonny have than Roy?

Ans: _____ [3]

37. Siti bought a plant that was 20 cm tall.

On 5 Sunday evenings, she measured the height of the plant and recorded its height increase for the week.

The bar graph below shows her records for the first 4 weeks.



(a) In which week was the increased in the plant's height the most?

(b) If the height of the plant on Week 5 was 40 cm, what was the increase in the height of the plant from Week 4 to Week 5?

Ans: (a) _____ [1]

(b) _____ [2]

38. Mrs Li bought $11\frac{1}{2}$ litres of orange juice.
She poured the orange juice equally into 4 containers.
There was 1.3 litres of juice left.
How many litres of juice was there in each container?

Ans: _____ [3]

39. Mary spent $\frac{1}{5}$ of her money on food and $\frac{3}{8}$ of the remaining money on a pen.
After that, she was left with \$2.50.
- (a) How much money did she have at first?
- (b) Later, Mary bought another similar pen.
How much money had she left now?

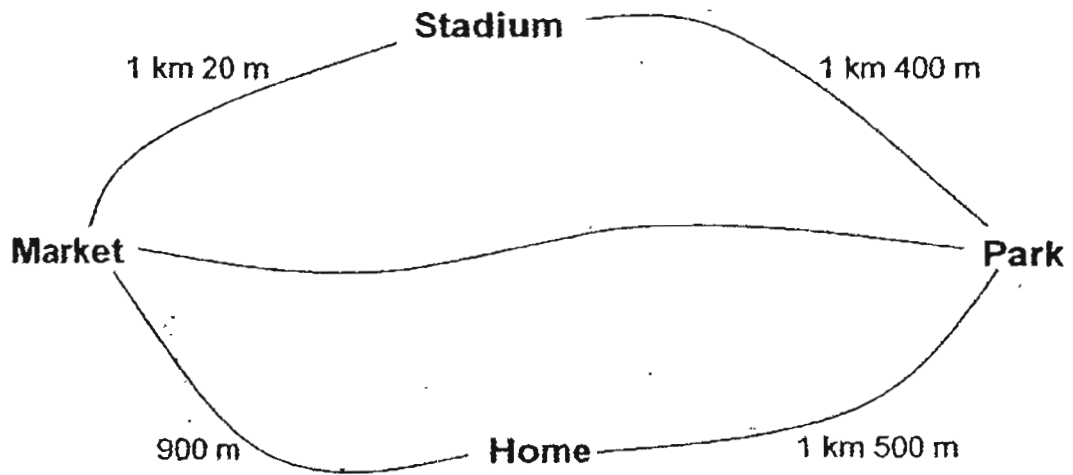
Ans: (a) _____ [2]

(b) _____ [2]

40. Three similar fans, a wall clock and a vacuum cleaner cost \$488 altogether. The cost of each fan is \$12 more than the wall clock. Given that the wall clock cost \$78, what is the cost of the vacuum cleaner?

Ans: _____ [4]

41. The diagram below shows the distance between 4 different places.
The distance from the market to a park is 3 times as far as from the market to the stadium.



- (a) Find the distance between the market and the park.
(Express your answer in kilometres)
- (b) Lionel cycles from the stadium to the park.
From the park, he cycles to the market before going home.
What is the total distance that Lionel had cycled?

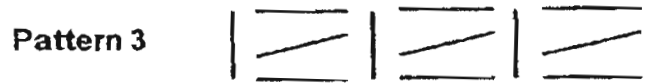
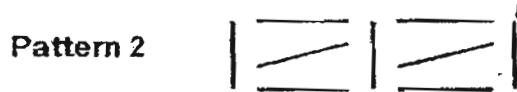
Ans: (a) _____ 473 [2]

(b) _____ [2]

42. Devi used 5 toothpicks to form a design as shown in Pattern 1 below.



She continued forming Pattern 2 and Pattern 3 in the following way.

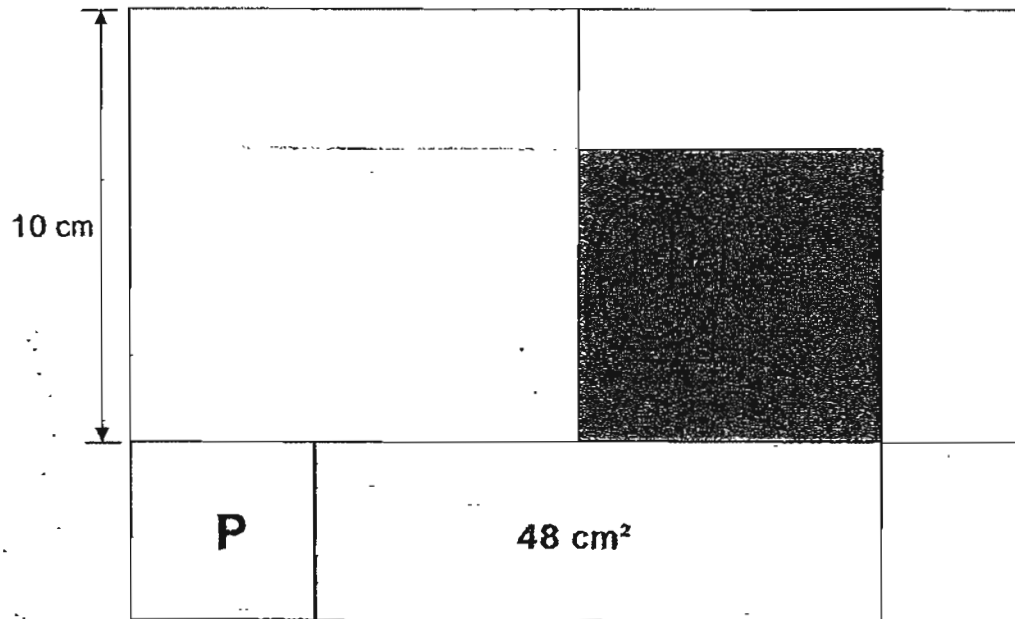


a) Complete the table below by filling in the number of toothpicks for Pattern 4 and 5.

Pattern No.	1	2	3	4	5
No. of Toothpicks	5	9	13		

b). Which Pattern number was Devi forming if she used 321 toothpicks to form the pattern?

43. The figure below is made up of 2 big squares, 1 medium square, 1 small square and a rectangle



- (a) Given that the area of the rectangle is 3 times the area of square P.
Find the area of square P.
- (b) The shaded region of the figure is a square.
Find the perimeter of the shaded region.

Ans: (a) _____⁴⁷⁵[1]

(b) _____[3]

At first, Ali and John had some marbles and David did not have any marbles.
44. ~~Three boys Ali, John and David have some marbles.~~

After Ali gave $\frac{2}{5}$ of his marbles to David and John gave $\frac{1}{4}$ of his marbles to David, the three boys _{now} have the same number of marbles.

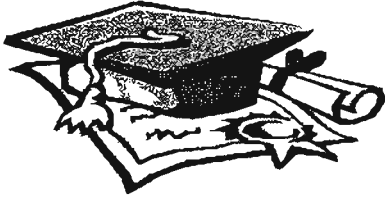
(a) Given that Ali ^{have} has 100 marbles at first, how many marbles ^{did} does John have at first?

(b) During a game, David lost half the number of marbles to Mary. Ali and John each decided to give the same number of marbles to David so that the 3 of them have an equal number of marbles again. What fraction of the marbles did Ali and John each give to David?

Ans: (a) _____ [3]

(b) _____ [2]

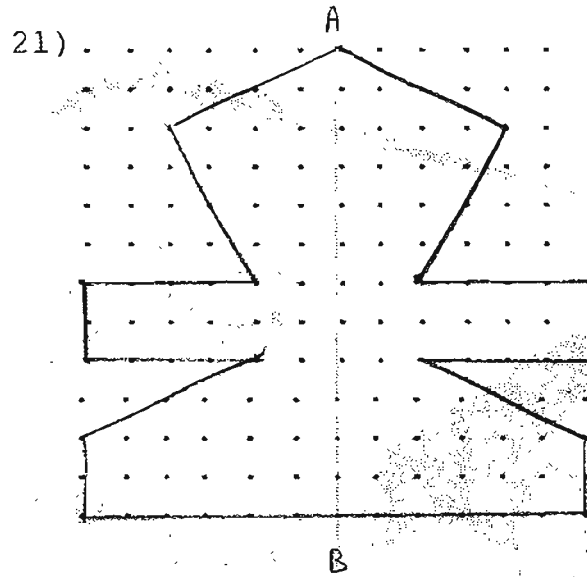
-End of Paper-
Please check your work carefully ☺



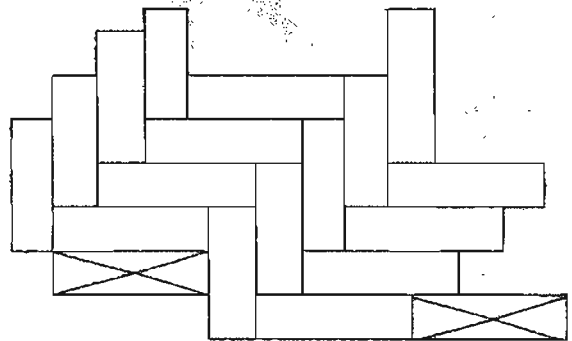
ANSWER SHEET

RAFFLES GIRLS' PRIMARY SCHOOL - PRIMARY 4 MATHEMATICS 2007
SEMESTRAL ASSESSMENT (2)

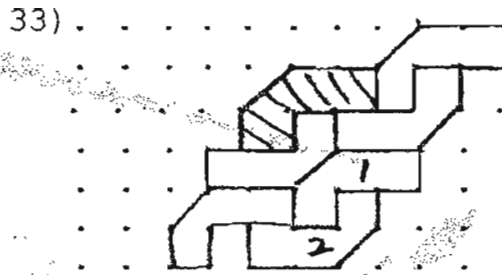
1. 4
2. 3
3. 4
4. 3
5. 2
6. 1
7. 3
8. 3
9. 3
10. 3
11. 2
12. 3
13. 1
14. 3
15. 3
16. 21700
17. 32cm
18. 3500ml
19. 10 pencils
20. 10 pencils



22)



- 23) 0.481
 24) 70.06
 25) 148°
 26) 8 more rectangles
 27) 5090
 28) 16
 29) 1024g
 30) $27 \frac{1}{2} h$
 31) 114°
 32) 11.24



- 34) 50cm
 35) \$2.30



$1500 \div 6 = 250$
 $250 \times 4 = 1000$
 Sonny has 1000 more stamps than Roy.

- 37) a) The increased in the plant's height the most in on the 4th week.
 $40 - 20 - 4 - 2 - 4 - 8 = 2 \text{ cm}$
 b) The increased in height is 2 cm.

38) $1.3 = \frac{13}{10}$ $11\frac{5}{10} = \frac{115}{10}$
 $\frac{115}{10} - \frac{13}{10} = \frac{102}{10}$
 $= 10.2$
 $10.2 \div 4 = 2.55$
 There was 2.55L of juice in each container.

39) a) $\$2.50 \div 5 = \0.50
 $50 \times 8 = 400$
 $400 \div 4 = 100$
 $100 \times 5 = 500$
 She had \$5 at first
 b) $50 \times 2 = 100$
 She had \$1 left now.

40) $\$78 + \$12 = \$90$

$\$90 \times 3 = \270

$\$270 + \$78 = \$348$

$\$488 - \$348 = \$140$

The cost of the vacuum cleaner is \$140

41) a) $1\text{km } 20\text{m} \times 3 = 3\text{km } 60\text{m}$

$3\text{km } 60\text{m} = 3.06\text{km}$

The distance is 3.06km

b) $1\text{km } 400\text{m} + 3\text{km } 60\text{m} + 900\text{m} = 5\text{km } 360\text{m}$

The total distance is 5km 360m

42) a) 17, 21

b) $321 - 1 = 320$

$320 \div 4 = 80$

Devi was farming pattern 80.

43) a) $48\text{cm}^2 \div 3 = 16\text{cm}^2$

The shaded region is 16cm^2

b) $16\text{cm}^2 \div 4\text{cm} = 4\text{cm}$

$48\text{cm}^2 \div 4\text{cm} = 12\text{cm}$

$12\text{cm} - 4\text{cm} = 8\text{cm}$

$12\text{cm} - 6\text{cm} = 6\text{cm}$

$6\text{cm} \times 4 = 24\text{cm}$

The perimeter of the shaded region 24cm.

44) a) $100 \div 5 = 20$

$20 \times 4 = 80$

John had 80 marbles at first.

b) $20 \times 3 = 60$

$60 \div 2 = 30$

$30 \div 3 = 10$

$10/60 = 1/6$

Ali and John each give David $1/6$ marbles.