



MARIS STELLA HIGH SCHOOL (PRIMARY)

SEMESTRAL ASSESSMENT 1

MATHEMATICS

11 MAY 2012

BOOKLET A

20 questions

40 marks

Total Time For Booklets A and B: 1 h 45 min

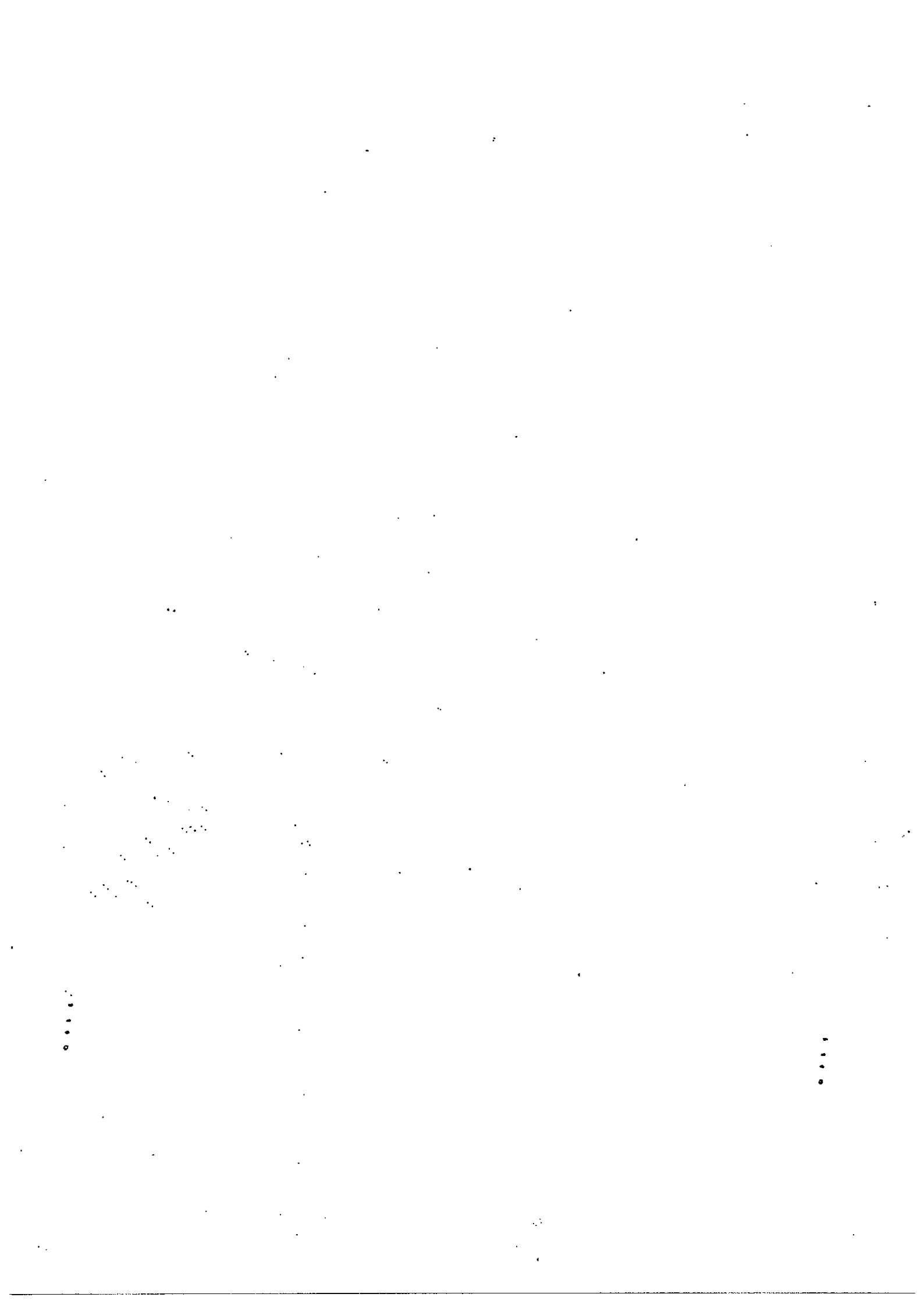
NAME: _____ ()

CLASS : PRIMARY 4 _____

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

ANSWER ALL QUESTIONS.



Section A (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 correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.

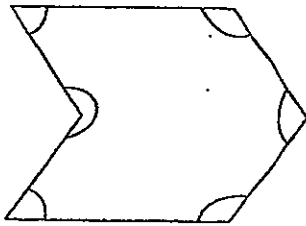
1. Which of the following is nineteen thousand, seven hundred and fourteen?

- (1) 19 714
- (2) 19 740
- (3) 90 714
- (4) 90 740

2. $\frac{11}{4}$ expressed as a mixed number is _____.

- (1) $1\frac{1}{4}$
- (2) $2\frac{3}{4}$
- (3) $3\frac{2}{4}$
- (4) $3\frac{3}{4}$

3. How many angles inside the figure below are bigger than a right angle?



- (1) 6
- (2) 2
- (3) 3
- (4) 4

4. Jane took 15 minutes to eat her lunch. She finished eating at 1.10 p.m. At what time did she start eating?
- (1) 1.25 a.m.
 - (2) 1.25 p.m.
 - (3) 12.55 a.m.
 - (4) 12.55 p.m.
5. Alice had 20 cookies. She gave $\frac{2}{5}$ of them away. How many cookies did she give away?
- (1) 8
 - (2) 2
 - (3) 12
 - (4) 4
6. What is the value of the digit 4 in the sum of 12 437 and 52 431?
- (1) 4000
 - (2) 400
 - (3) 40
 - (4) 4
7. Ethan turned 90° clockwise and is facing north-west now. Where was he facing at first?
- (1) North
 - (2) South-west
 - (3) South-east
 - (4) North-east

8. $5 - \square = 1 + \frac{2}{3}$

(1) $1\frac{2}{3}$

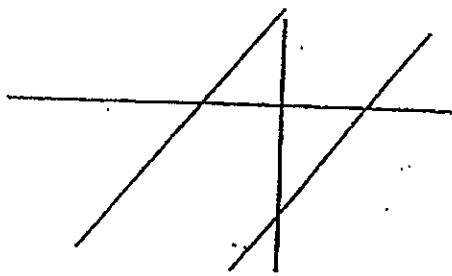
(2) $3\frac{1}{3}$

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

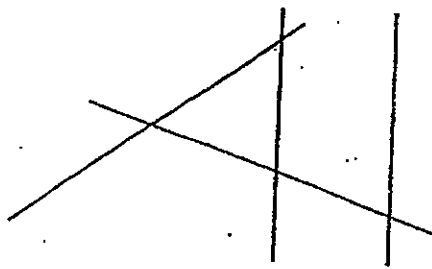
(4) $6\frac{2}{3}$

9. Which of the following figures have both parallel and perpendicular lines?

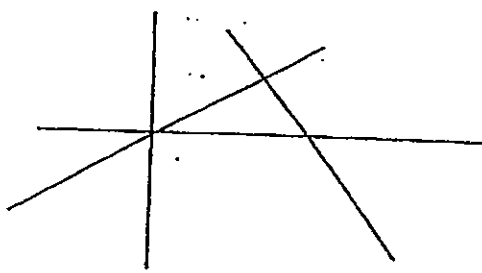
(1)



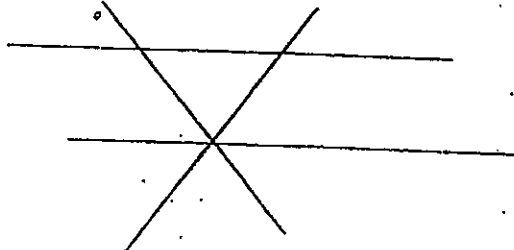
(2)



(3)



(4)



10. How many of the letters below have perpendicular lines?

C H A W E L

- (1) 5
- (2) 2
- (3) 3
- (4) 4

11. How many quarters must be added to $1\frac{3}{4}$ to get $4\frac{1}{2}$?

- (1) 7
- (2) 11
- (3) 13
- (4) 18

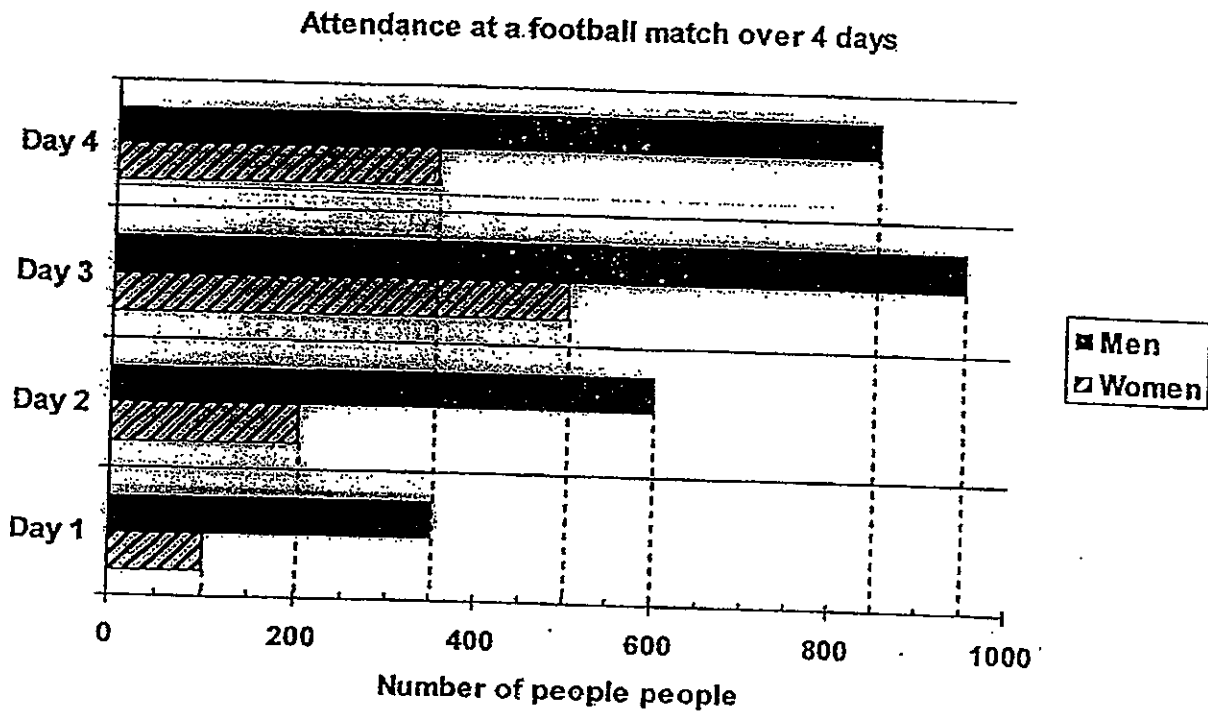
12. A pail was half-filled with water. Jack transferred the water from the pail into Containers A and B which were empty at first. 1 l 80 ml of water was poured into container A and 2 l 960 ml of water was poured into container B. How much water can the pail hold when it is completely filled with water?

- (1) 3 l 140 ml
- (2) 4 l 40 ml
- (3) 6 l 280 ml
- (4) 8 l 80 ml

13. A bus leaves a bus terminal every 15 min. The first bus leaves at 8.00 a.m. How many buses would have left the bus terminal from 8.00 a.m. to 9.55 a.m.?

- (1) 6
- (2) 7
- (3) 8
- (4) 9

14. The graph below shows the number of people who were present at a football match over 4 days.



On which day is the difference in the number of women and men who attended the football match the greatest?

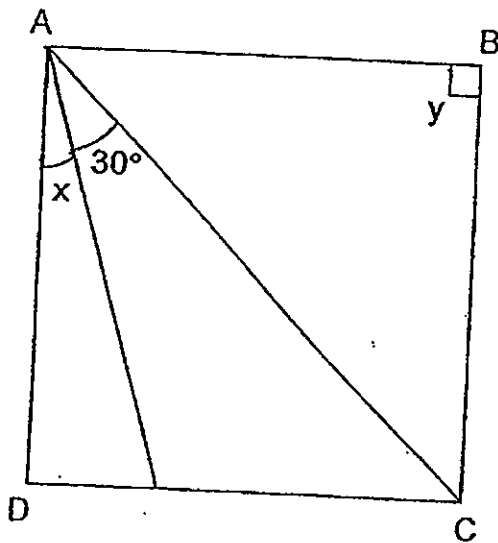
- (1) Day 1
(2) Day 2
(3) Day 3
(4) Day 4
15. A 2-kg cake was shared equally among 9 friends. How much of the cake did 2 of the friends receive?

- (1) $\frac{9}{2}$ kg
(2) $\frac{2}{18}$ kg
(3) $\frac{4}{9}$ kg
(4) $\frac{4}{18}$ kg

16. Siti bought 2 dolls and 3 books. The cost of 1 doll is twice the cost of 1 book. She paid \$140 for the dolls and books. How much did she pay for the books?

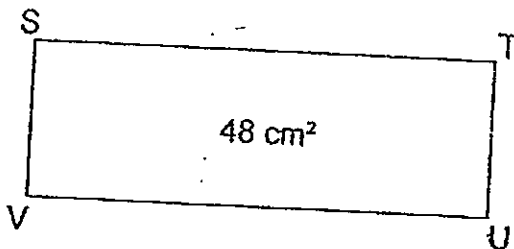
- (1) \$20
- (2) \$28
- (3) \$60
- (4) \$84

17. ABCD is a square not drawn to scale. Find the sum of $\angle x$ and $\angle y$.



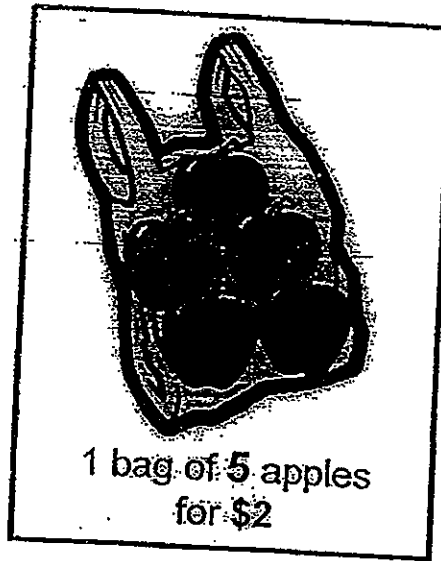
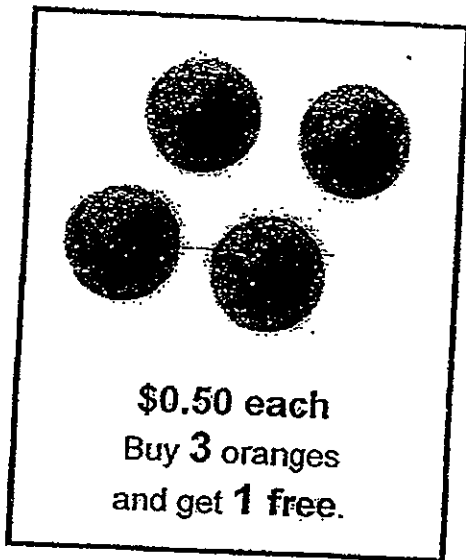
- (1) 60°
- (2) 105°
- (3) 120°
- (4) 150°

18. STUV is a rectangle with an area of 48 cm^2 . ST is 3 times the length of TU. Find the length of TU.



- (1) 16 cm
- (2) 12 cm
- (3) 6 cm
- (4) 4 cm

19. A shop sells oranges and apples at the price shown below.



Mrs Tan bought some apples and oranges from the shop. She paid \$6 in total. At most, how many oranges could she get?

- (1) 5
- (2) 8
- (3) 10
- (4) 12

20. $\frac{1}{2}$ of the toys Bryan has is as many as $\frac{1}{3}$ of the toys Nina has. Nina has 18 more toys than Bryan. How many toys do they have altogether?

- (1) 108
- (2) 90
- (3) 54
- (4) 48

End of Booklet A
Go on to Booklet B





MARIS STELLA HIGH SCHOOL (PRIMARY)

SEMESTRAL ASSESSMENT 1

MATHEMATICS

11 MAY 2012

BOOKLET B

25 questions

60 marks .

Total Time For Booklets A and B: 1 h 45 min

NAME : _____ ()

CLASS : PRIMARY 4 _____

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

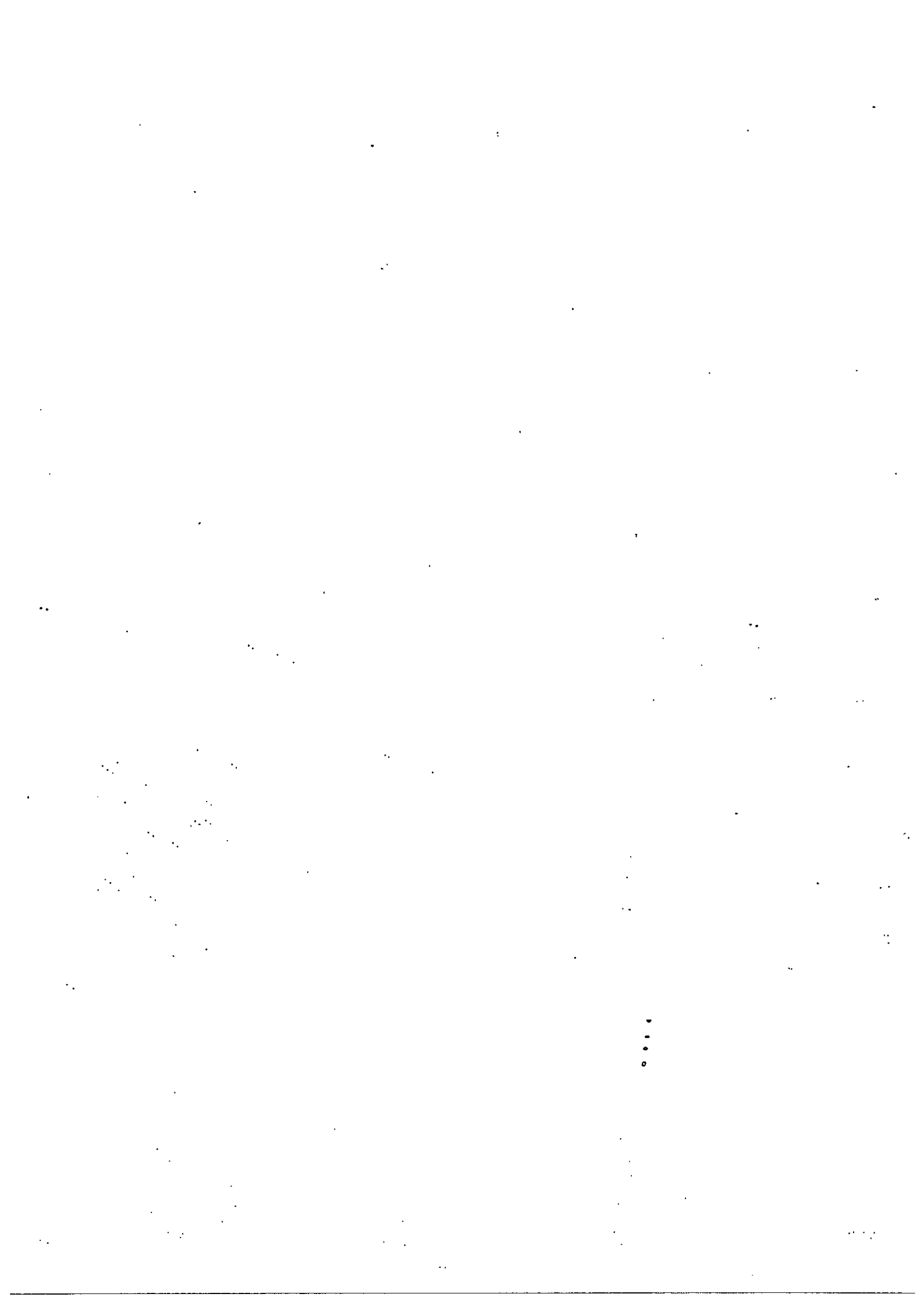
ANSWER ALL QUESTIONS.

MARKS OBTAINED :

BOOKLET A: _____ / 40

BOOKLET B: _____ / 60

TOTAL : _____ / 100



Section B (20 x 2 = 40 marks)

Show your working clearly in the spaces below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

21. What is the remainder when 2147 is divided by 4?

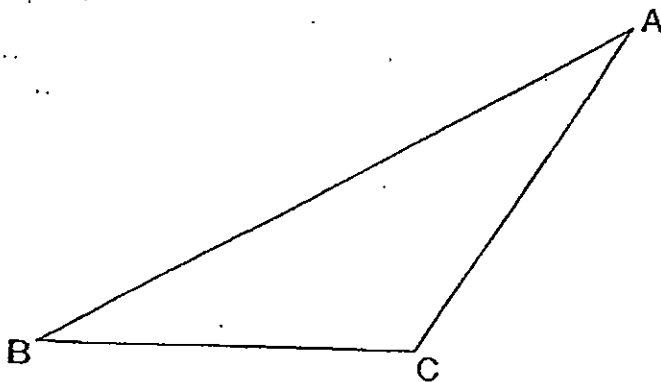
Do not write in this space.

Answer: _____

22. What is $2\frac{2}{3} \times 6$?

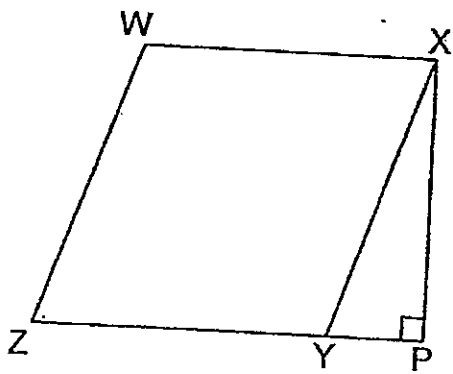
Answer: _____

23. Use a protractor to measure $\angle ACB$.



Answer: _____°

24. Name two pairs of parallel lines.



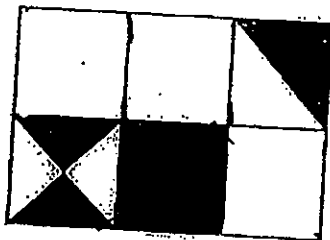
Answer: _____ // _____
 _____ // _____

Do not write in this space.

25. Mr Lim had 3 kg 50 g of flour. He used 500 g and packed the rest equally into 3 bags. What is the mass of flour in each bag?

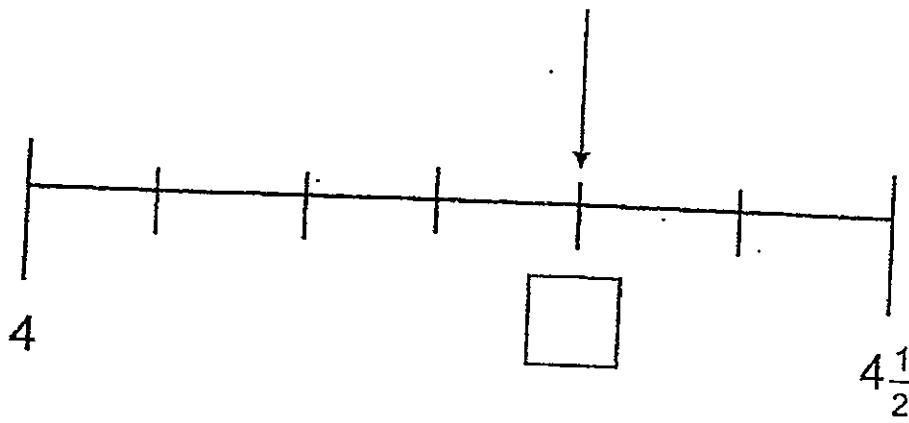
Answer: _____ g

26. What fraction of the figure is shaded? Give your answer in its simplest form.



Answer: _____

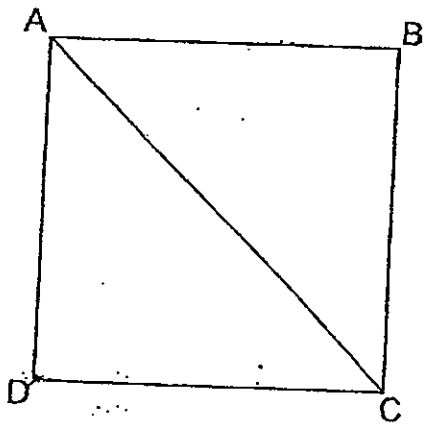
27. What is the correct mixed number indicated by the arrow below?
Give your answer in its simplest form.



Answer: _____

Do not write in this space.

28. ABCD is a square. Draw a line perpendicular to line AC passing through point D. Label the line DE.



29. I have some pieces of one-dollar, two-dollar and five-dollar notes.
They have a total value of \$10. At least how many notes do I have?

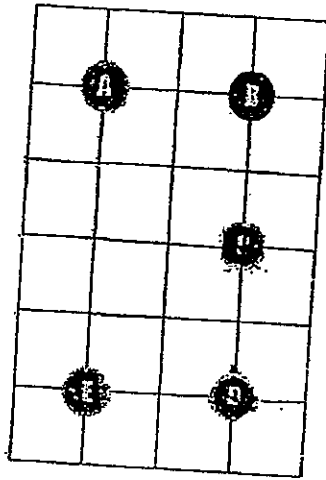
⋮

⋮

Answer: _____

--

30. Look at the map below carefully.



Do not write in this space.

(a) _____ is north-west of C.

(b) D is facing north. It has to make a _____ - turn in the clockwise direction in order to face E.

Answer: (a) _____

(b) _____

31. An even number is between 20 and 50. It is a multiple of 7 and leaves a remainder of 1 when divided by 9. What is the number?

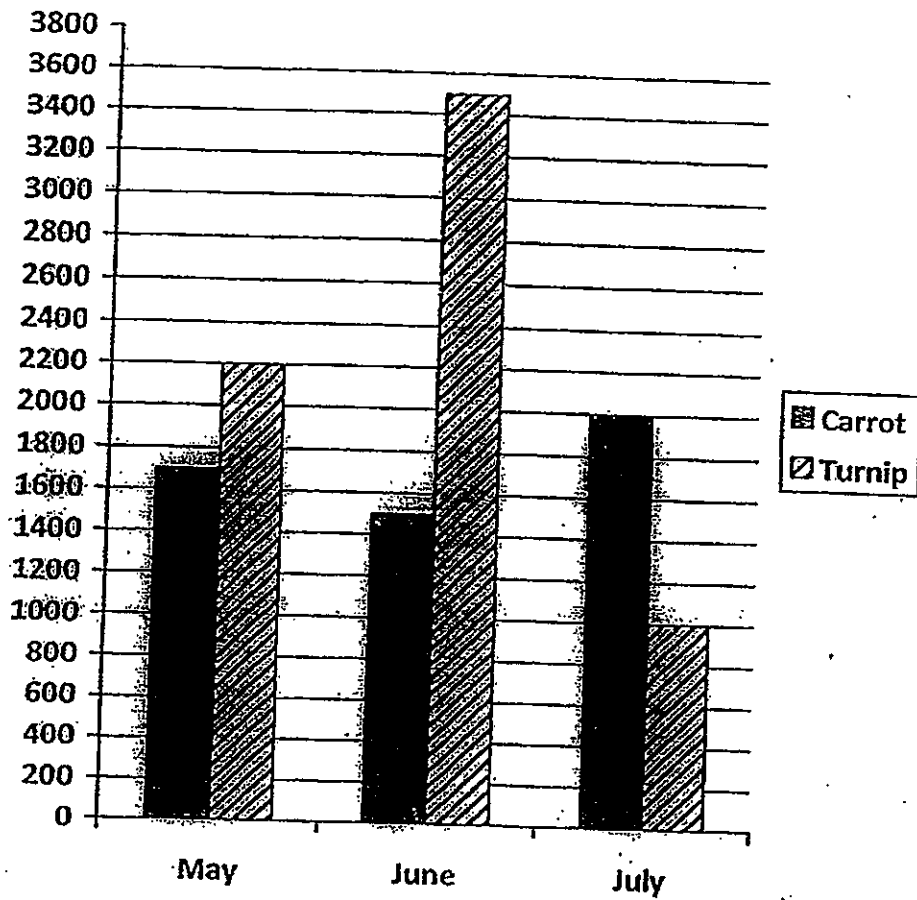
Answer: _____

32. Nathan had 12 kg of rice at first. He gave $\frac{1}{4}$ of his rice to his mother. Then he gave $\frac{2}{3}$ kg of his rice to a neighbour. How much rice has he left?

Answer: _____ kg

The table shows the number of carrots and turnips harvested by Farmer John from May to July. Study it carefully and answer Questions 33 and 34.

Do not write in this space.



33. In which month was the number of carrots harvested twice the number of turnips?

Answer: _____

34. In August, the total number of carrots and turnips harvested was twice the total number of carrots and turnips harvested in May. What is the total number of carrots and turnips harvested in August?

Answer: _____

35. Mr Tan drove 2 h 45 min to reach Town A. He then drove on to Town B. He took 1 h 25 min longer to reach Town A than Town B. How long did the whole journey take him?

Do not write in this space.

Answer: _____ h _____ min

36. Javier has some 50¢ and 20¢ coins. There are 5 more 20¢ coins than the 50¢ coins. The total value of these coins is \$8. How many 50¢ coins does Javier have?

Answer: _____

37. Giant Cookies Factory baked 6000 cookies. It supplied all its cookies to 75 shops. 55 of these shops received 4000 cookies altogether while the remaining shops received an equal number of cookies each. How many cookies did each of the remaining shops get?

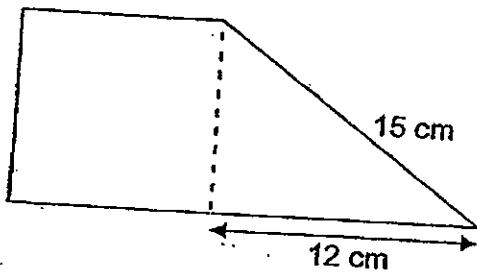
Answer: _____

38. Lina grows 14 tulips and some roses in her garden. $\frac{2}{7}$ of her flowers are tulips. How many of the flowers are roses?

Do not write in this space.

Answer: _____

39. The figure is made up of a square and a triangle. The perimeter of the figure is 54 cm. Find the length of one side of the square.



Answer: _____ cm

40. Mary baked $\frac{3}{5}$ of the number of buns Devi baked. After Devi gave 60 buns to Mary, they had the same number of buns. How many buns did Mary and Devi bake altogether?

Answer: _____

Section C (5 x 4 = 20 marks)

Work out the answers for each of the following questions. All workings must be shown clearly in the space provided.

41. Suzy, Jane and David saved \$16 100 altogether. Suzy saved \$500 more than Jane. David saved \$1000 more than Suzy.

- (a) How much did Jane save?
- (b) What is the total amount that the girls saved?

Do not write in this space.

Answer:(a) _____ [2]

(b) _____ [2]

... that displayed 5 toy figurines, A, B, C, D and E in a straight row.

Toy A is first in the row and toy E is last in the row.

The distance between toys A and D is 2 m.

The distance between toys A and B is the same as the distance between toys C and D. Toys B and C are 1 m apart, and toys D and E are $1\frac{2}{3}$ m apart. What is the distance between toys B and E?

Do not
write in
this
space.

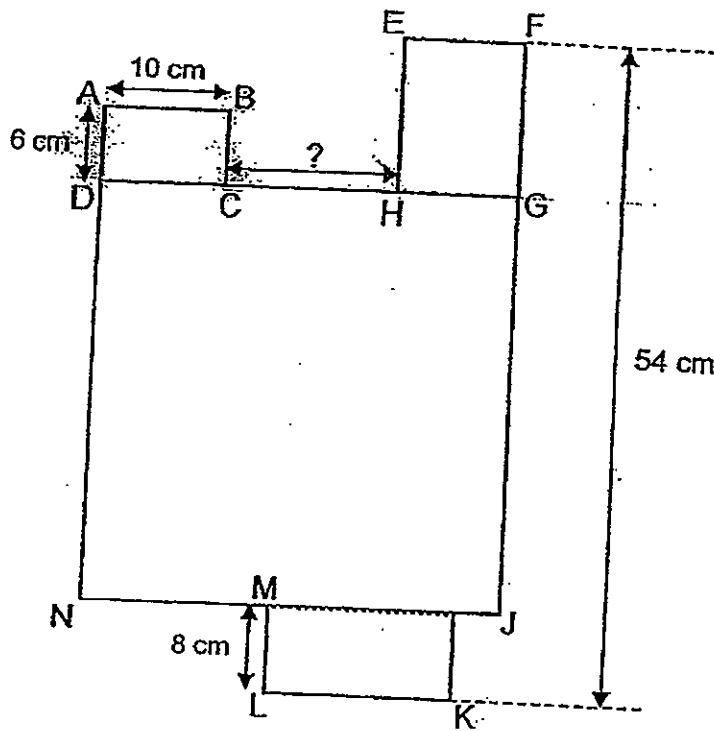
Answer: _____ [4]

43. Jennifer had \$120 more than Nora at first. After Nora gave \$60 to Jennifer, Jennifer had 3 times the amount of money Nora has. How much money did they have altogether?

Do not write in this space.

Answer: _____ [4]

44. The figure below is made up of 3 rectangles and 1 big square. DGJN is the square. The length of EH is twice that of AD, and $AB = EF$.



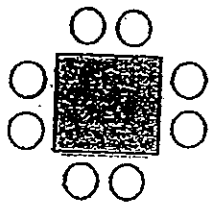
Do not write in this space.

- (a) Find the length of CH.
 (b) Find the perimeter of the figure.

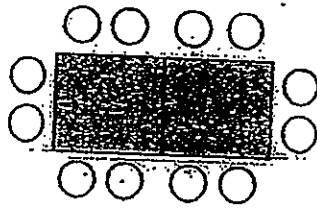
Answer:(a) _____ [2]

(b) _____ [2]

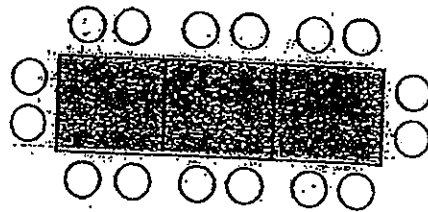
45. Two persons can sit at each side of a square table as shown in Figure 1. Each time more tables are added, they are joined by the side to form a long table as shown in Figures 2 and 3.



1 table
Figure 1



2 tables
Figure 2



3 tables
Figure 3

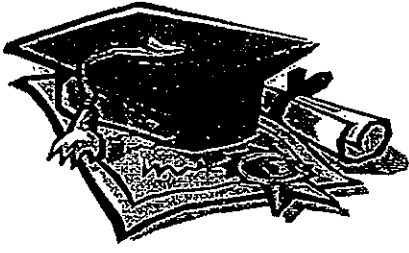
- (a) Mr Wong adds 2 more tables to Figure 3 to form a longer table. How many more chairs does he need?
- (b) Mrs Wong wants to form a long table that can sit 60 persons. Keeping to the same arrangement shown above, how many square tables does Mrs Wong need altogether?

Do not write in this space.

Answer:(a) _____ [2]

(b) _____ [2]

END OF PAPER



ANSWER SHEET

EXAM PAPER 2012

SCHOOL : MARIS STELLA
SUBJECT : PRIMARY 4 MATHEMATICS

TERM : SA1

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

Q18	Q19	Q20
4	3	2

21) 3

22) 16

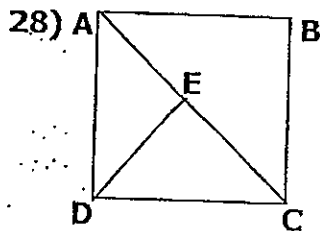
23) 122°

24) WZ//XY
ZP//WX

25) 850g

26) $1/3$

27) $4\frac{1}{3}$



29) 4 notes

30) a) A
b) 270°

31) 28

32) mother $\rightarrow \frac{1}{4}$ of rice

$\frac{1}{4} \times 12/1 = 3\text{kg}$

Left $\rightarrow 12\text{kg} - 3\text{kg}$

$= 9\text{kg} - 2/3\text{kg} = 8\frac{2}{3}\text{kg} - 2/3\text{kg}$

$= 8\frac{1}{3}\text{kg}$

33) July

34) May $\rightarrow 1700 + 2200$

$= 3900$

Aug $\rightarrow 3900 \times 2$

$= 7800$

35) $245 - 125 = 120$

$120 + 245 = 365$

3h 65min = 4h 5min

36) $5 \times 20\text{c} = \$1$

$\$8 - \$1 = \$7$

$\$7 \div 70\text{c} = 10$

37) $6000 - 4000 = 2000$

$2000 \div 20 = 100$

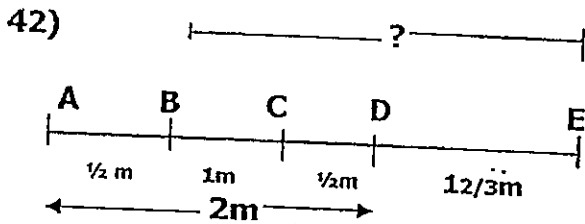
38) $14 \div 2 = 7$
 $7 \times 5 = 35$

39) $54 - 15 - 12 = 27$
 $27 \div 3 = 9\text{cm}$

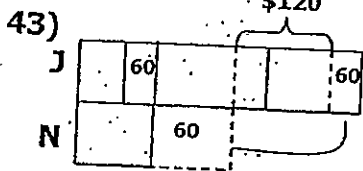
40) $60 = 1/5$
 $60 \times 8 = 480$

41)a) $1000 + 5000 + 500 = 2000$
 $16100 - 2000 = 14100$
 $14100 \div 3 = 4700$
 She saved \$4700

b) $\$4700 \times 2 = \9400
 $\$9400 + \$500 = \$9900$
 The total amount the girls saved is \$9900



$2 - 1 = 1$
 $AB = CD$
 $AB = 1 \div 2 = 1/2 \text{ m}$
 $BE = 1 + 1/2 + 12/3$
 $= 1 + 3/6 + 14/6$
 $= 27/6 = 3 1/6 \text{ m}$



$2u \rightarrow 60 + 120 + 60 = 240$
 $1u \rightarrow 240 \div 2 = 120$
 $4u \rightarrow 120 \times 4 = \480

$$44) a) EH \rightarrow 6 \times 2 = 12$$
$$(54 - 12) - 8 = 34$$
$$10 \times 2 = 20$$
$$34 - 20 = 14$$

The length of CH is 14cm.

$$b) 34 + 34 = 68$$
$$54 + 54 + 6 + 6 = 120$$

Perimeter $\rightarrow 68 + 120 = 188\text{cm}.$

$$45) a) 4 \times 2 = 8$$

He needs 8 more chairs.

$$b) F1 = 4 + 4$$
$$F2 = 4 + 4 + 4$$
$$F3 = 4 + 4 + 4 + 4$$
$$60 - 4 = 56$$
$$56 \div 4 = 14$$

He needs 14 tables altogether.

