NAN HUA PRIMARY SCHOOL SEMESTRAL ASSESSMENT 2 - 2006 **MATHEMATICS** PRIMARY 5

		BOOKLE	TA	
15 Questions				
20 marks				
Total Time for Bo	oklet A & E	3: 2h 15min		
INSTRUCTIONS TO NOT OPEN THE FOLLOW ALL INSTALL QU	O CANDID IE BOOKL TRUCTIO	ATES ET UNTIL YOU AR	E TOLD TO DO	SO.
.	Section	Maximum Marks	Actual Marks	
	Α	20		
	B + C	80		
	Total	100		
Name:		d)		
Date: 30 October 3	2006			

Parent's Signature.

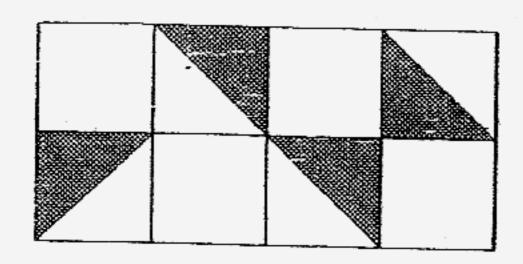
Section A (20 marks)

Questions 1 to 10 carry one mark each. Questions 11 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) and then shade the correct oval on the OAS.

- 1. How many hundreds are there in 5 300?
 - (1) 530
 - (2) 53
 - (3) 3
 - (4) 30
- 2. How many $\frac{1}{7}$ are there in 21?
 - (1) 147
 - (2) 63
 - (3) 3
 - (4) 14
- 3. The length of the whiteboard in the classroom is about ____
 - (1) 0.35 cm
 - (2) 3.5 cm
 - (3) 35 cm
 - (4) 350 cm

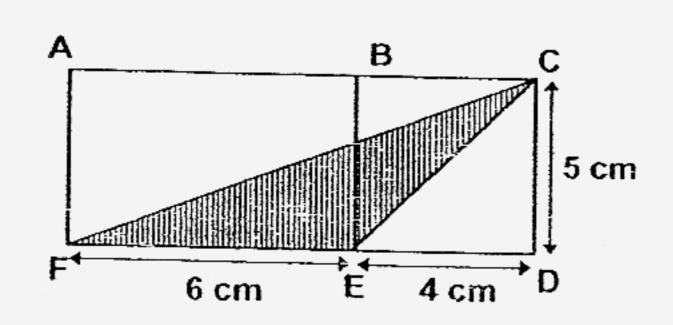
- 4. $\frac{2}{5} \div 4$ is the same as ______.
 - (1) $\frac{5}{2} \times \frac{4}{1}$
 - (2) $\frac{2}{5} \times \frac{4}{1}$
 - (3) $\frac{5}{2} \times \frac{1}{4}$
 - (4) $\frac{2}{5} \times \frac{1}{4}$
- 5. The sides of a triangle are in the ratio 3:4:5.
 What fraction of the perimeter is the length of the longest side?
 - (1) $\frac{1}{4}$
 - (2) $\frac{3}{5}$
 - $(3) \frac{5}{7}$
 - $(4) \frac{5}{12}$
- 6. Pears are only sold at 3 for \$2. Raju has \$9. The maximum number of pears he can buy is ______.
 - (1) 6
 - (2) 9
 - (3) 12
 - (4) 13

7. What percentage of the figure below is shaded?



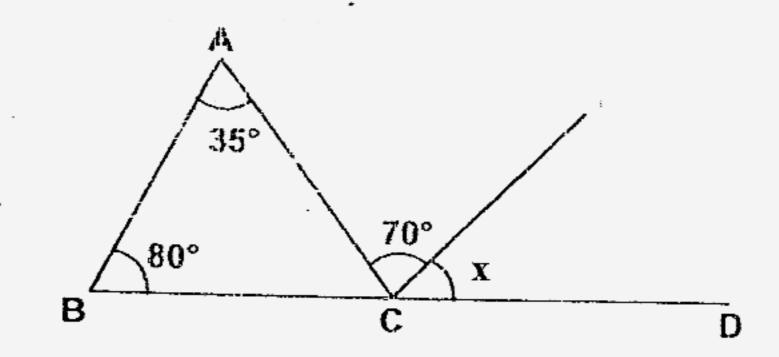
- (1) 75%
- (2) 40 %
- (3) 25%
- (4) 4%
- 8. 30 % of 2 kg 200 g is _____ g.
 - (1) 6.6
 - (2) 66
 - (3) 660
 - (4) 6600

9. What is the area of the shaded triangle CEF?

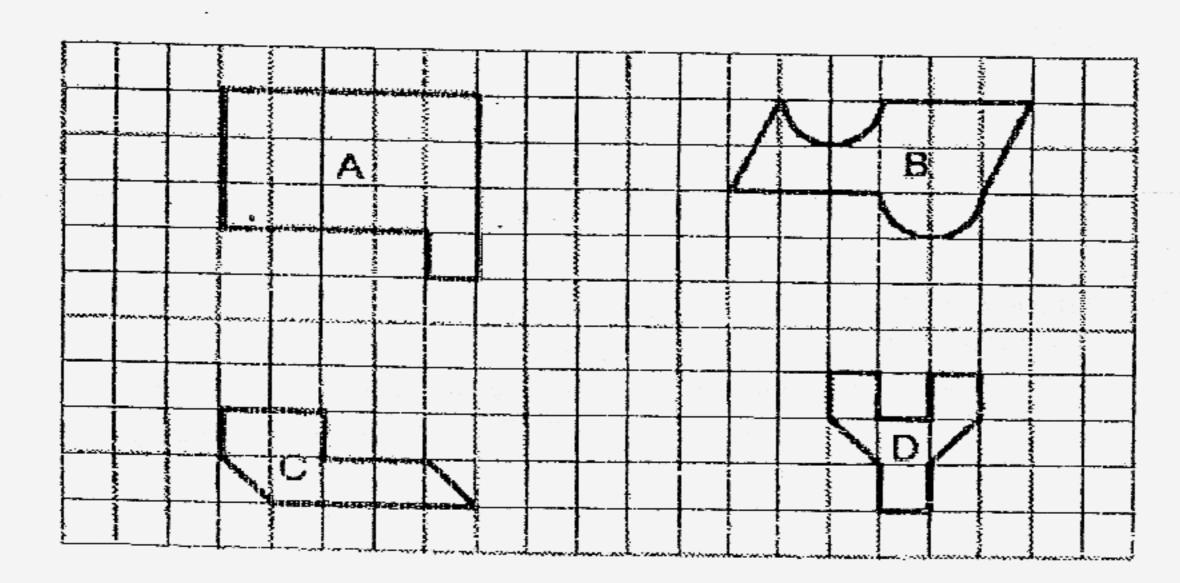


- (1) 30 cm²
- (2) 25 cm²
- (3) 15 cm^2
- (4) 12 cm²

10. In the diagram below, not drawn to scale, BD is a straight line. ABC is a triangle. What is the angle marked x?



- (1) 35°
- (2) 45°
- (3) 80°
- (4) 115°
- 11. Which of the following shapes can tessellate?



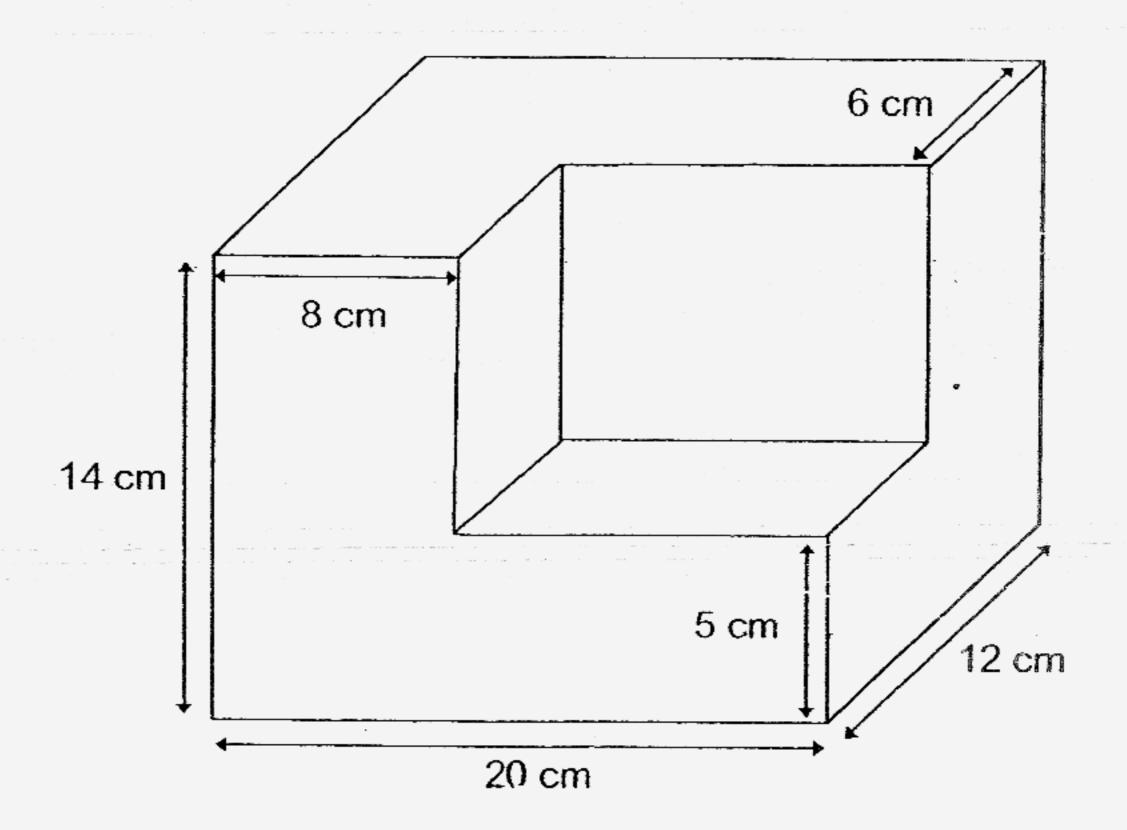
- (1) A and B only
- (2) B and C only
- (3) A, B and C only
- (4) A, B, C and D

- 12. A box of Pokemon cards was shared equally among a group of 10 children. 2 of them gave all their Pokemon cards to the rest of the children. As a result, the rest of the children received 4 more Pokemon cards each. How many Pokemon cards were there in the box at first?
 - (1) 80
 - (2) 160
 - (3) 180
 - (4) 320
- 13. The total mass of an orange and a lemon is 250g. The total mass of the lemon and a peach is 180g.

The peach is $\frac{3}{5}$ as heavy as the orange.

What is the mass of the lemon?

- (1) 42 g
- (2) 70 g
- (3) 75 g
- (4) 85 g
- 14. There were 6 girls and 4 boys in a group. The total marks obtained by the 6 girls for Mathematics is 420. The average mark obtained by the 4 boys for Mathematics is 82. What is the average mark obtained by the group for Mathematics?
 - (1) 76
 - (2) 75.8
 - (3) 74.8
 - (4) 70



Some 3-cm cubes were cut off from a cuboid 20 cm by 12 cm by 14 cm to obtain the solid shown above. How many such cubes were cut off? (The figure is not drawn to scale.)

- (1) 24
- (2) 72
- (3) 96
- (4) 124

MAN HUA PRIMARY SCHOOL SEMESTRAL ASSESSMENT 2 – 2006

BOOKLET B

Na	ne : () Class: Primary 5
Qu	CTION B (10 marks) estions 16 to 25 carry 1 mark each. Write your answers in the spaces provided, questions which require units, give your answers in the units stated.
16.	Find the value of $30 + 14 - (42 \div 6)$.
· · ·	
	Ans:
17.	The ratio of Sally's mass to Gary's mass is 3 : 4. What is Sally's mass if Gary is 12 kg heavier?
	Ans:kg
18.	Write down the fraction which is exactly between $\frac{2}{5}$ and $\frac{3}{5}$. Express your answer in its lowest terms.
	· Ans:
19.	Mary saves 40 ¢ of her pocket money daily. How long will she take to save \$2 ?
	Ans:days

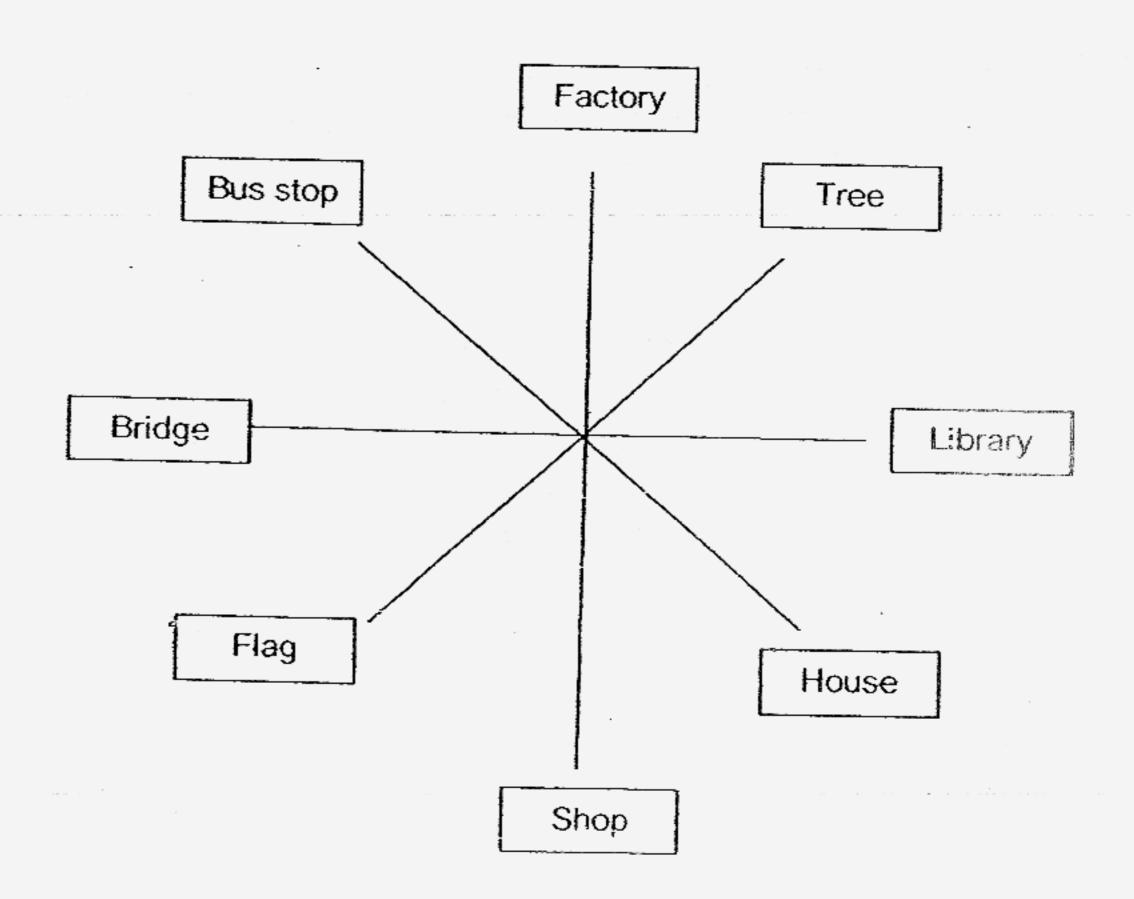
20. I have fewer than 40 beads. What is the maximum number of beads that I can have if I can arrange them in groups of either threes or fours equally.

Ans:______beads

21. Express $4\frac{2}{5}$ m in centimetres.

Ans: _____cn

22. Jane is facing the tree. What will Jane be facing if she turns 135° clockwise?



Ans:

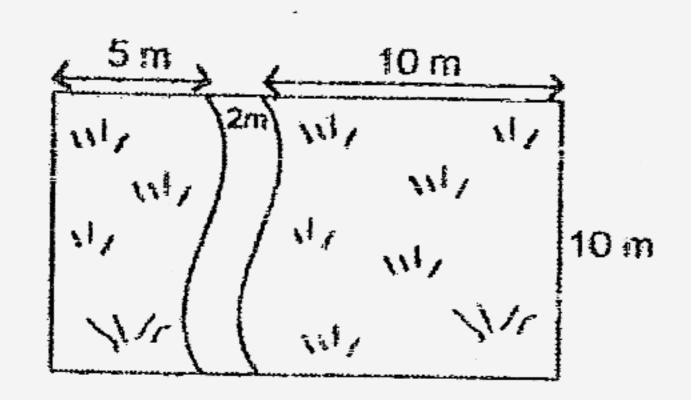
23. The table below shows the result of a survey on the number of visits made by some Primary 5 pupils to the school library last month.

Number of Visits	6	8	10	11	12	-
Number of Pupils	8	14	7	8	5	

How many pupils visited the library more than 10 times?

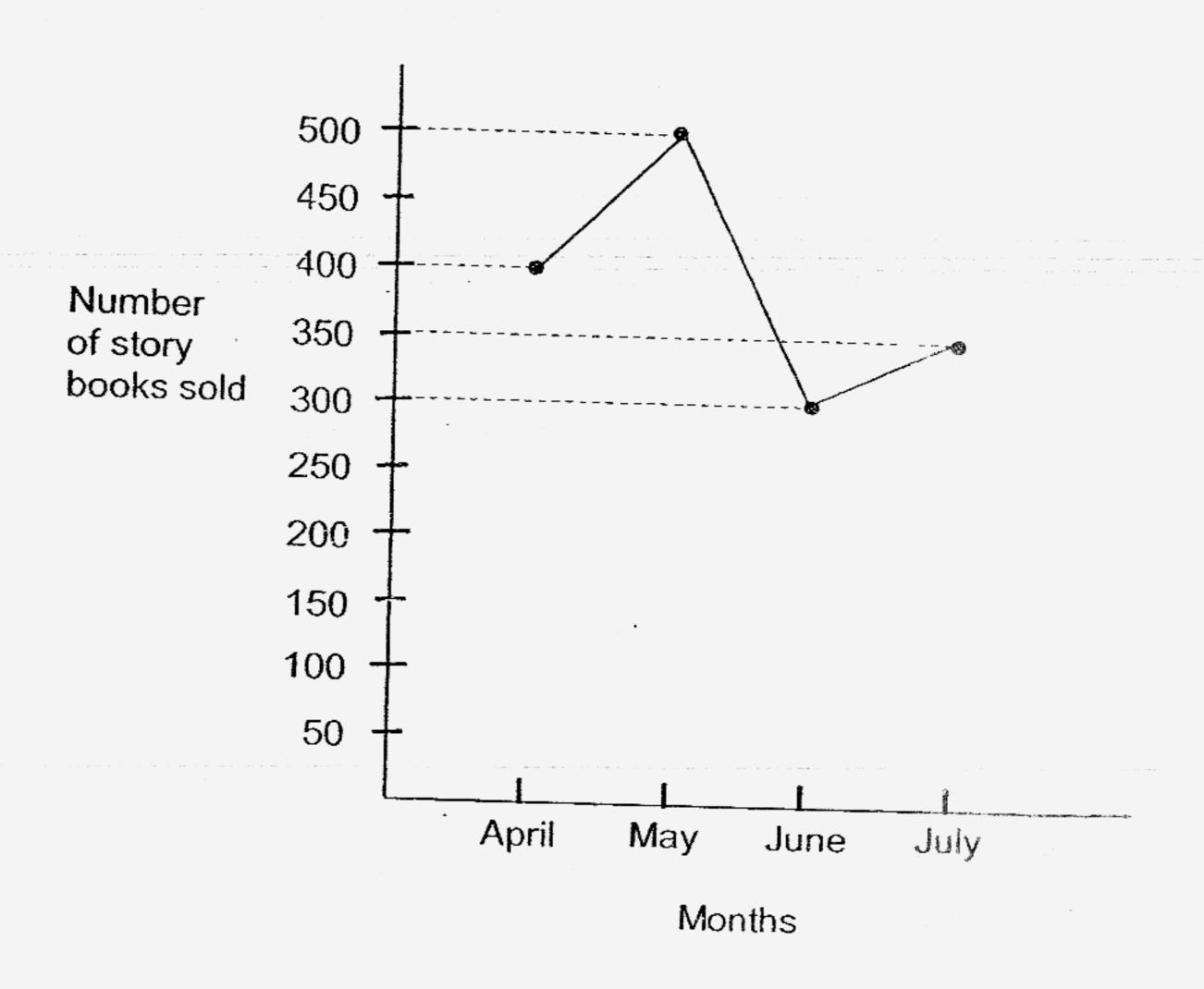
Ans :	pupils
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24. The figure below shows a cement path across a rectangular field. The path is 2 metres wide. Find the area of the field that is covered by the path. (The figure is not drawn to scale.)



Ans:	m²
, ,, i , ,	1 1 1

25. The line graph shows the number of story books sold by a book shop over 4 months. What was the increase in the number of story books sold from June to July?



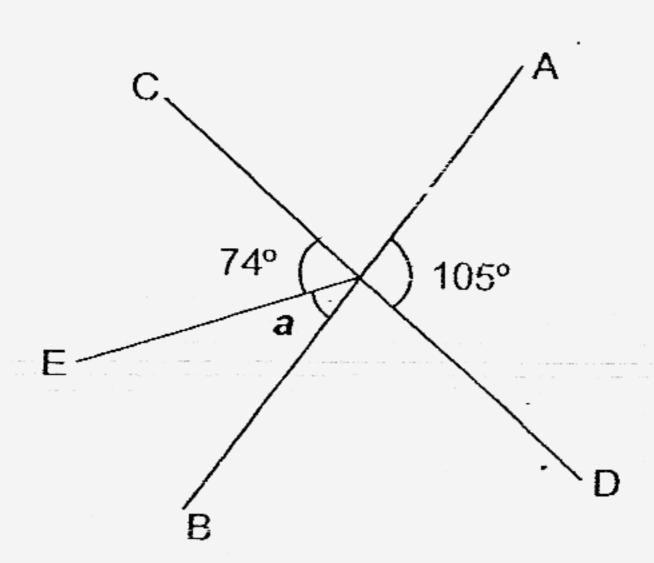
	-		
Ans:		etonz	books
		Scory	いいついい

	Que Sho ans	SECTION B (20 marks) Questions 26 to 35 carry 2 marks each. Show your workings clearly in the space below each question and write your inswers in the spaces provided. For questions which require units, give your inswers in the units stated.				
	26.	There are 8 ducks and cats altogether. The total number of legs is 22. How many ducks are there?				
		Ans:ducks				
<i>´</i> .	27.	Find the volume of a cuboid which measures 15cm by 10cm by 5 cm.				
		Ans:cm³				
	28.	When $\frac{2}{3}$ of a certain number is reduced by 6, the result is 12. What is the number?				
		. Ans :				

29. 7 out of 28 apples are rotten. What percentage of the apples is not rotten?

Ans:______%

In the figure, not drawn to scale, AB and CD are straight lines.
 Find the value of ∠a.



Ans:

31. The total cost of 1 pen and 4 pencils is \$3.60. If each pen costs 5 times as much as a pencil, how much does 1 pen cost?

Ans:\$____

32. In a supermarket, apples are cold at 6 for \$1.70. If a customer buys 18 such apples, how much change will she get if she gives the cashier \$10?

Ans:\$____

33. A is $\frac{1}{3}$ of B and C is $\frac{5}{6}$ of B.

Express C as a ratio of A in its lowest terms.

:

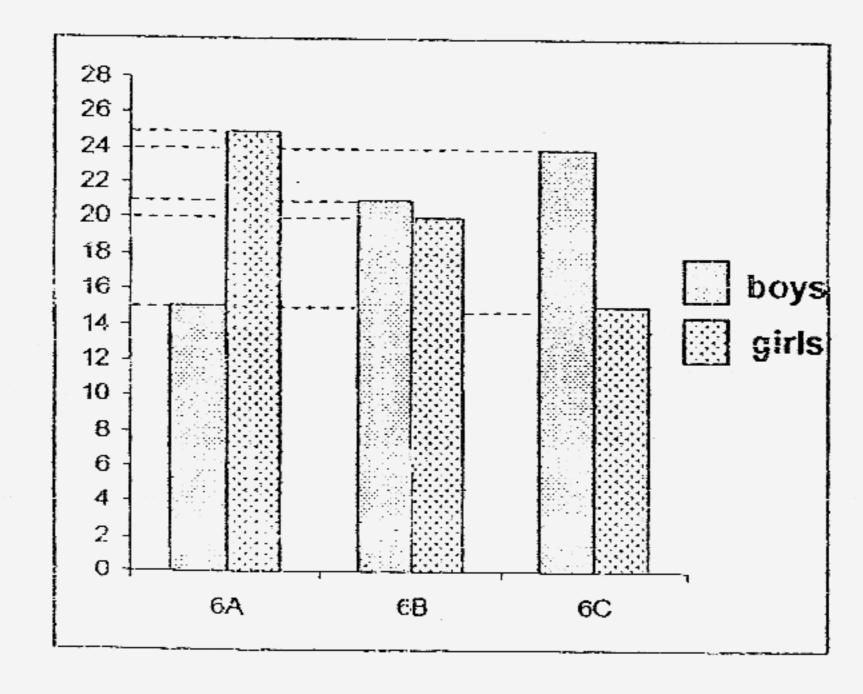
34. The table below shows the parking charges at a car park.

1 st hour (7am – 5pm)	\$2.00
Subsequent 1 hour or part thereof	\$0.90
5pm to 7am	\$2.50 per entry

How much did Mr Asha pay if he parked his car from 2 pm to 4.45 pm at this car park?

Ans:\$	
, αιο . ψ	

35. The graph below shows the number of Primary 6 students in three classes. What percentage of the total number of students is boys?



%
7

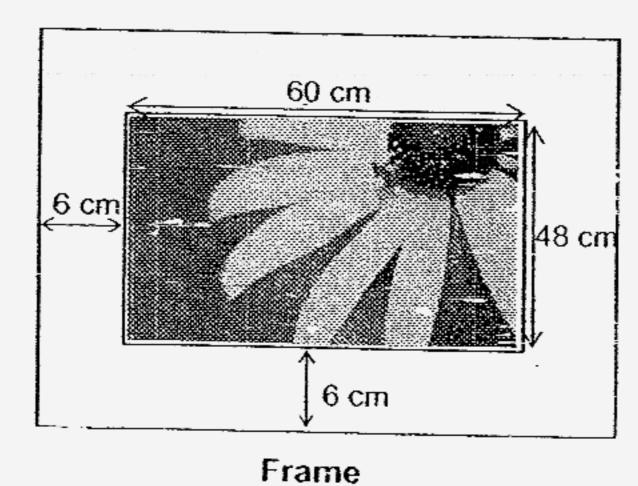
Section C (50 marks)

For questions 36 to 48, show your workings clearly in the space provided for each question and write your answers in the spaces provided. The number of marks available is shown in the brackets at the end of each question or part-question.

36. A student spent $\frac{1}{5}$ of her pocket money on food, $\frac{1}{10}$ of it on drinks and $\frac{1}{7}$ of the remainder on stationery. If she had \$6 left, what was her pocket money?

Ans :(3m)		
(0)(1)	Anc -	1000
	, m	 OHH

37. A picture 60 cm by 48 cm is framed up with a border of 6 cm all around it. Find the area of the border.



Ans	:		(3m)
_		Transfer of the second of the	(~)

	At a sale, T-shirts were so How much would I have to	old at \$20 for 3 and each pair of shorts very pay if I bought 6 T-shirts and 3 pairs	vas sold at \$7.50. of shorts?
			-
			-
		•	
		Ans :	(3m)
	If Lionel had \$60, what was	ed among John, Ken and Lionel in the rest the total amount of money that Ken had the 3 to the total among the 3 total	ad to give to the
39.	If Lionel had \$60, what was	the total amount of money that Ken have was equally divided among the 3 to 2.	ad to give to the
	If Lionel had \$60, what was	the total amount of money that Ken h	ad to give to the
	If Lionel had \$60, what was	the total amount of money that Ken h	ad to give to the
	If Lionel had \$60, what was	the total amount of money that Ken h	ad to give to the
	If Lionel had \$60, what was	the total amount of money that Ken honey was equally divided among the 3 to 2000 to 20	ad to give to the
	If Lionel had \$60, what was	s the total amount of money that Ken honey was equally divided among the 3 b	ad to give to the
	If Lionel had \$60, what was	the total amount of money that Ken honey was equally divided among the 3 b	ad to give to the
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	If Lionel had \$60, what was	the total amount of money that Ken honey was equally divided among the 3 b	ad to give to the
	If Lionel had \$60, what was other 2 boys so that the mo	the total amount of money that Ken honey was equally divided among the 3 b	nad to give to the poys?
	If Lionel had \$60, what was other 2 boys so that the mo	the total amount of money that Ken honey was equally divided among the 3 to 2 to	nad to give to the poys?
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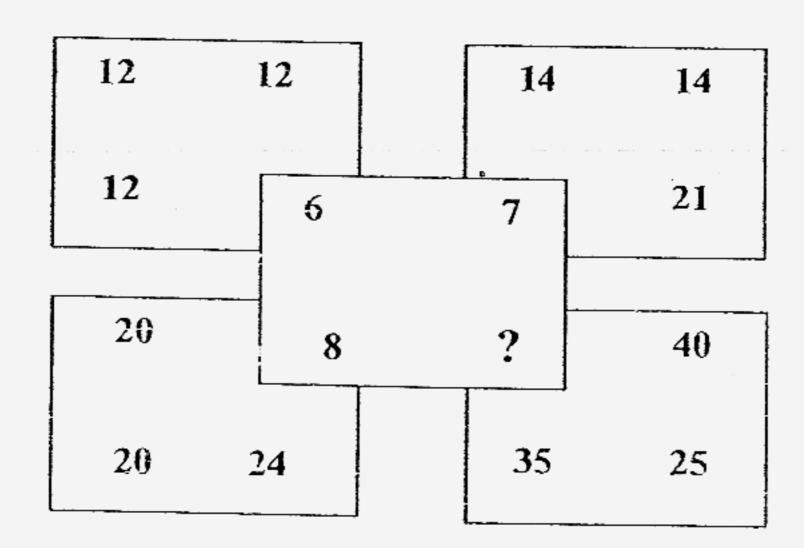
40. Melissa has \$120. Norman has $\frac{4}{5}$ of Melissa's amount.

Peter has $\frac{1}{2}$ of what Melissa and Norman have.

How much money does Peter have?

_		
Ans	•	1200
	*	 (3m)

41. Study the number pattern carefully. What is the missing number?
[Show your workings clearly to show how the numbers are related in this pattern.]



Ans:(3	3m
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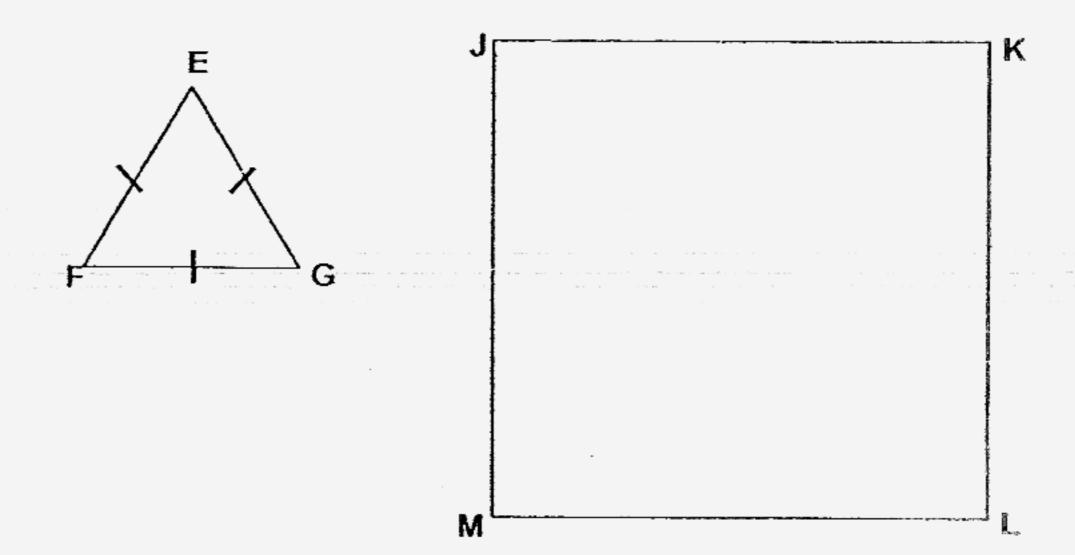
42.	The ratio of the number of stamps that Doris has to the number that Ellen has to		
	The three girls have 480 stamps altogether		
	If Fiona gives 10% of her stamps to Ellen and $\frac{1}{3}$ of the remainder to Doris, what		
	fraction of the total stamps will Fiona have left?		

	•	
-		
Answer:	(4m	1

43. EF : JM = 1 : 4.

The sum of the perimeters of Δ EFG and square JKLM is 76 cm.

- a) What is the perimeter of the triangle?
- b) What is the area of the square?



Answer:	a)	(2m)
	b)	(2m)

44. Chenghua spent $\frac{2}{7}$ of his money on 4 pencils and 8 books.

She then spent the remaining amount of money on 6 pencils 10 pens and 12 books.

How many pens can she buy with $\frac{6}{7}$ of her money?

(4m

- 45. The figure is made of 2 rectangles, E and F, and a square, G.
 The difference between the breadths of the 2 rectangles is 2 cm.
 The lengths of all the sides of the square and rectangles are whole numbers.
 - a) Find the area of G.
 - Find the minimum length of wire needed to construct the figure.
 (Note: Wire is not to be overlapped.)

E 48 cm²	G
F 32 cm²	

Ans:a)_		_(3m)
	•	
	*	

(2m)

	· · · · · · · · · · · · · · · · · · ·
46.	John had \$60 more than Ken.
	Each week John spent \$22 and Ken spent \$20.
	They used up all their money at the same time.
	a) How many weeks did they take to spend all their money?
	b) How much money did John have at first?
	·
	-
	Answer: a)(3m)

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_(2m)

- 47. A housewife bought some apples at 3 for \$1 and an equal number of oranges at 40 cents each.
 - a) If she paid \$4 more for the oranges than for the apples, how many apples did she buy?
 - b) If she put 2 oranges and 3 apples in a packet, how much more money would she need to buy enough fruit for 30 packets?

Answer:	a)	(2m)
	b)	 (3m)

48. There were 12 me	ore girls than	boys in a cl	ub.	and the second
1 of the girls and				

 $\frac{1}{3}$ of the girls and $\frac{1}{4}$ of the boys took part in a competition.

Among those who took part in the competition, there were 6 more girls than boys. What fraction of the club members who did not take part in the competition were boys?

	-
Answer:	 (5m)

End of Paper

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38)$62.50
1.2
2.1
                 39) $45
                 40)$108
                 41)100
                 42)7/20
                 43)a)12cm
                    b) 256cm2
8.3
9.3
                 44)30 pens
                 45)a)100cm2
10.2
                    b) 24cm
11.3
12.2
                 46)a)30 weeks
                    b)$660
                 47)a)60 apples
13.3
14.3
                    b)$10
15.1
                 48)3/7
16.37
17.36kg
18. ⅓
19.5
20.36
21.440cm
22. shop
 23.13
 24.20m2
 25.350
 26.5
 27.750cm3
 28.27
 29.75%
 30.31°
 31.$2.00
 32.$4.90
 33.5:2
 34.$3.80
 35.50%
 36.$10
 37.1440cm2
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