STAR ZEST HOME TUITION TEL 63845607

Name :()	Index Number	
Class: Primary 6 SY / C / G / SE/ P			

SINGAPORE CHINESE GIRLS' SCHOOL (PRIMARY) PRELIMINARY EXAMINATION 2007 MATHEMATICS BOOKLET A

15 Questions

20 Marks

Total Time For Booklets A and B: 2 h 15 min

INSTRUCTIONS TO CANDIDATES

Do not open this booklet until you are told to do so.

Follow all instructions carefully.

Answer all questions

Questions 1 to 10 carry 1 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). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.

1. What is the missing number in the box?

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160 058 = 100 000 + + 50 + 8
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- (1) 60
- (2) 600
- (3) 6 000
- (4) 60 000

2. Which one of the following numbers is nearest to 10?

- (1) 9.01
- (2) 9.91
- (3) 10.01
- (4) 10.091

3. Which one of the following is the best estimate for 49.86 ÷ 97?

- (1) 5.0
- (2) 0.5
- (3) 0.05
- (4) 0.005

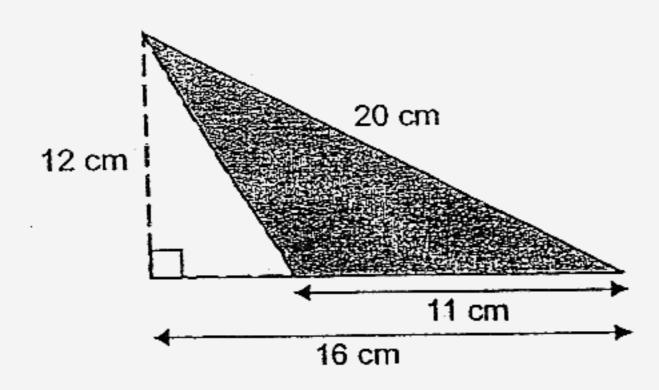
4. Find the value of $28 - 12 \div 4 \times 3 + 2$.

- (1) 14
- (2) 17
- (3) 21
- (4) 29

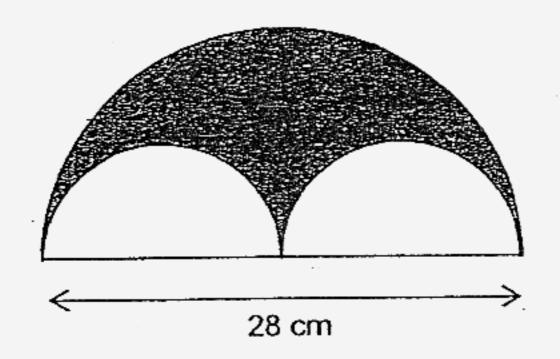
5. Which one of the following is the same as 10 h 15 min?

- (1) 75 min
- (2) 115 min
- (3) 615 min
- (4) 1015 min

What is the area of the shaded triangle? 6.

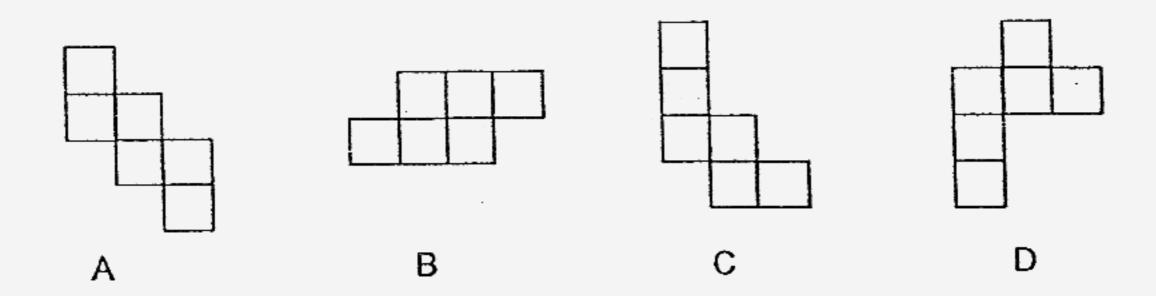


- 66 cm² 96 cm²
- (1) (2) (3) (4)
- 110 cm² 132 cm²
- The figure is made up of a big semicircle and two identical small semicircles. Find the perimeter of the shaded part of the figure. (Take $\pi = \frac{22}{7}$)



- 44 cm
- 66 cm
- 72 cm
- 88 cm (4)
- Mr Tan takes 5 minutes to saw a log into 2 equal pieces. 8. How long would he take to saw the same log into 12 equal pieces?
 - 12 min (1)
 - 30 min (2)
 - 55 min (3)
 - 60 min (4)

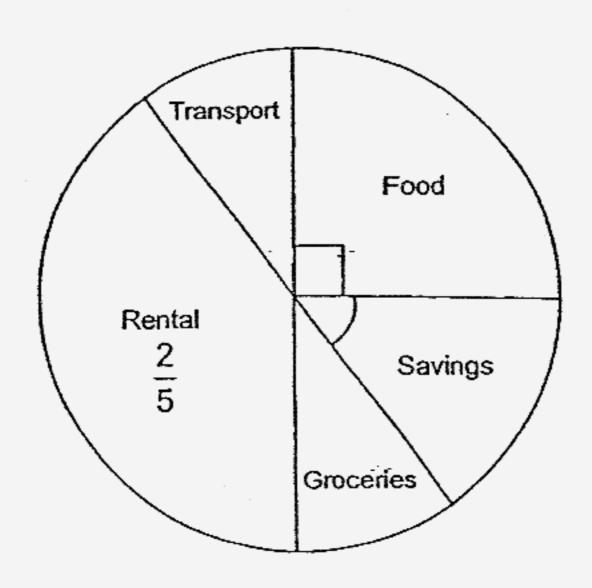
Which of the following can be the net of a cube? 9.



- B
- (4)
- Mrs Tan bought 5 pens and 3 files. Each pen cost \$a and each file cost \$b. 10. How much did she pay altogether?
 - (1) (a + b)
 - (a b)(2)
 - (3a + 5b)(3)
 - (5a + 3b)(4)
- John bought as many 20-cent stamps as 50-cent stamps. 11. He paid \$7 for all the stamps. How many stamps did he buy altogether?
 - (1)10
 - (2)20
 - 30
 - (3) (4) 40

- Which one of the following is greater than $\frac{1}{3}$? 12.

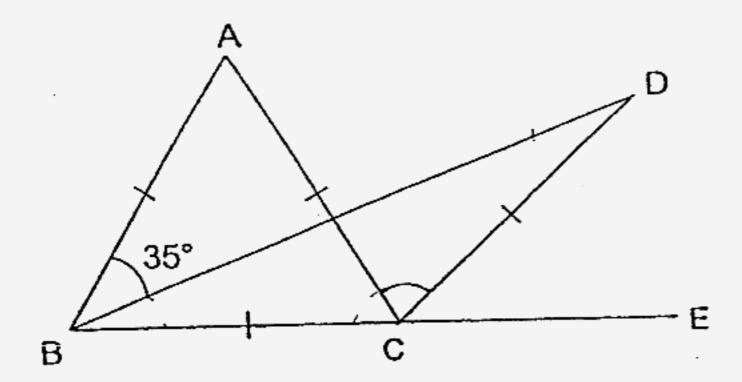
 - (2)
 - (3)
 - (4)
- The pie chart shows how Mrs Lim used her monthly salary. 13.



What percentage of her monthly salary did she save?

- 15% (1)
- 20%
- (2) (3) (4) 54%
- 85%

In the figure, not drawn to scale, ABC is an equilateral triangle, BCD is an 14. isosceles triangle and BCE is a straight line. Find ∠ACD.



- 50°.
- 70°
- 85°
- (1) (2) (3) (4) 95°
- Meiling gave 20% of her salary to her mother. She spent 50% of the remainder 15. and saved the rest. What percentage of her money did she save?
 - 30% (1)
 - 40% (2)
 - (3)- 50%
 - 60%

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Name :(•)	Index Number	
Class: Primary 6 SY / C / G (SB / P			

SINGAPORE CHINESE GIRLS' SCHOOL (PRIMARY) PRELIMINARY EXAMINATION 2007 MATHEMATICS BOOKLET B

33 Questions

80 Marks

Total Time For Booklets A and B: 2 h 15 min

INSTRUCTIONS TO CANDIDATES

Do not open this booklet until you are told to do so.

Follow all instructions carefully.

Answer all questions

Booklet B	(80	marks)
DOOWIGE D I		**********

Questions 16 to 25 carry 1 mark each. Questions 26 to 35 carry 2 marks each. For each question, write your answer in the space provided. Give your answers in the units stated.

Do not write In this column

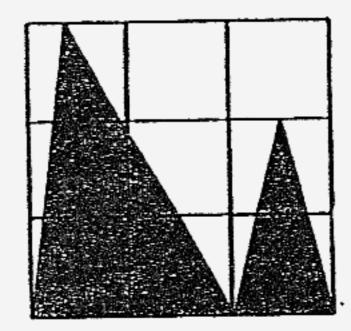
16. A number when rounded off to the nearest thousand is 870 000.
What is the greatest possible number?

Ans: _____

17. Write 2 tens 7 hundredths and 6 thousandths as a decimal.

Ans:_____

18. What fraction of the rectangle is shaded?



Ans: _____

19. Express $2\frac{3}{5}$ km in metres.

Ans: _____n

4

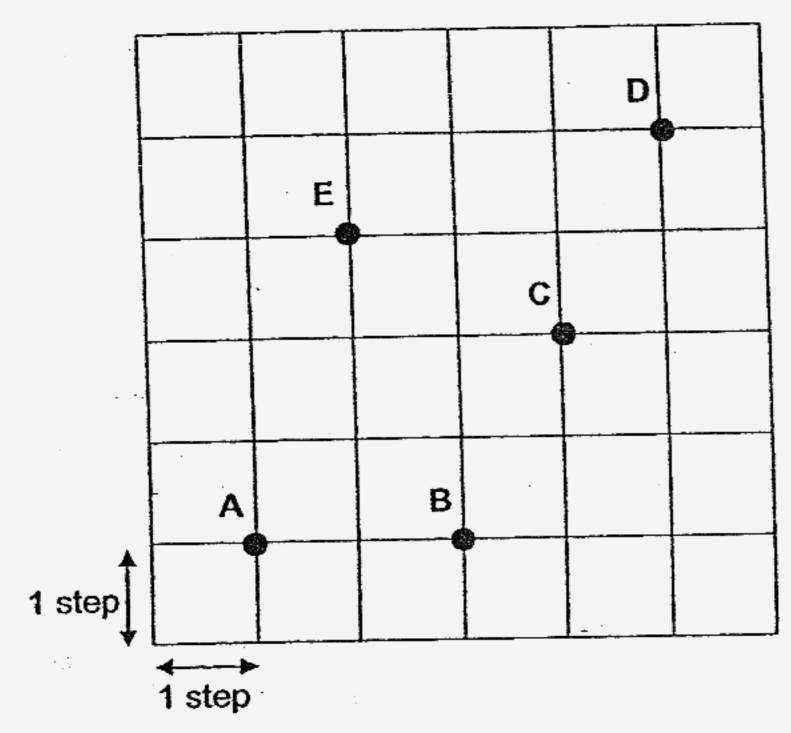
20.	Look at the reading indicated on the weighing scale.	Do not write
	What is the mass of the cabbage?	in this column
	(Give your answer in kg and g.)	
	Ans: kg/	
	A113	
	Ans:	_
22	A muffin cost twice as much as a pancake. Jane spent $\frac{1}{4}$ of her money of	-
	5 muffins. How many pancakes could she buy with the rest of her money	y?
	Ans:	_ 3

23.	A motorist travels 65 km in 30 minutes.
	Express his speed in km/h.

Do not write In this column

Ans:	km/h
M112*	 1411111

24. Study the diagram and answer the following questions.





Huimin was at a certain position. She walked 3 steps due west, 2 steps due south and then 2 steps due east. She ended at Position C. Where was her starting position?

A not	
Ans:	-

25. Sam and Tom shared some marbles in the ratio of 3:4. In a game, Tom lost half of his marbles to Sam. What was the ratio of the number of marbles Sam had to the number of marbles Tom had after the game?

Ans:	. /	
A		3

Questions 26 to 35 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

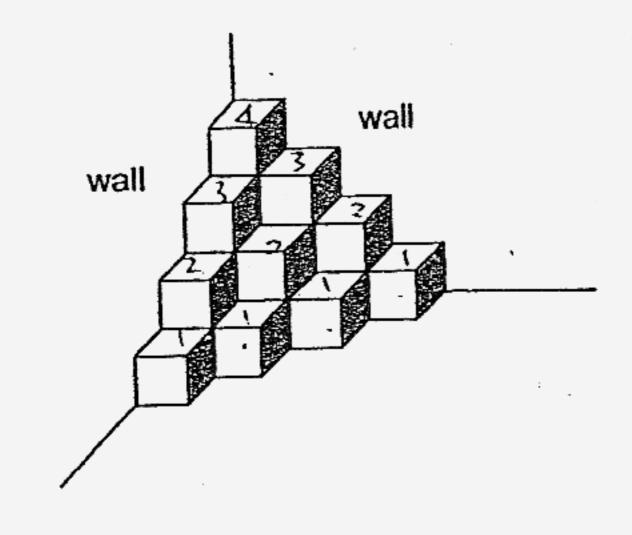
Do not write In this column Express $2\frac{1}{2}\%$ as a decimal. 26.

i	
i	

Deming bought some files for \$48 at a discount of 20%. 27. Given the discount, he was able to buy 3 more files at the usual price. What was the usual price of each file?

Ans:	\$	
------	----	--

The figure shows a solid leaning against two walls. The solid is made up of 28. some 1-cm cubes. Find the volume of the solid.



cm³ Ans: _

29.	A rectangular tank, 40 cm long, 35 cm wide and 25 cm high, contained
	21 litres of water. What is the height of the water level in the tank?

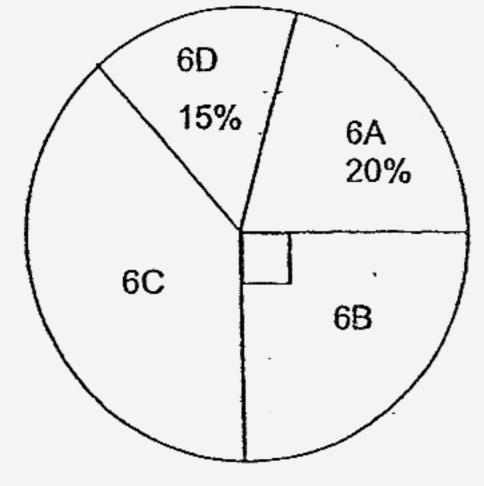
Do not write In this column

*	
Ans:	cm

30. Mrs Chua had just enough money to buy 4 kg of crabs and 3 kg of prawns. However, she bought 3 kg of crabs and 4 kg of prawns and had \$4.50 left. If she exchanged the 3 kg of crabs with 3 kg of prawns, how much money would she have left?

Ans:\$	
//113.φ	· · · · · · · · · · · · · · · · · · ·

31. The pie chart shows the amount of money donated by four Primary Six classes. The total amount collected was \$500.



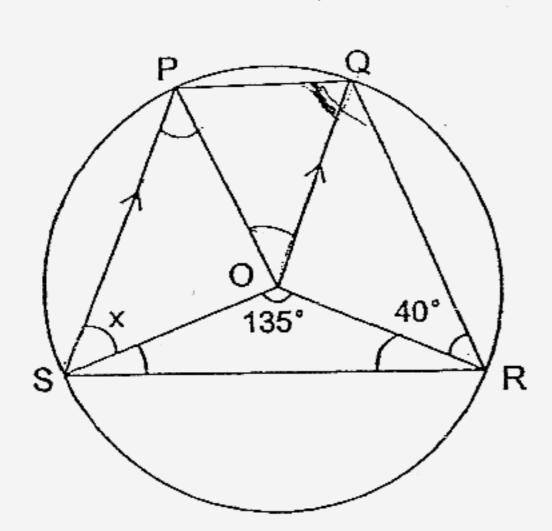
How much money was collected by Primary 6C?

134

Ans: \$_____6

32. In the figure, O is the centre of the circle and SP is parallel to OQ. Find \angle x .

Do not write In this column



Ans: ______

33. 8 workers can paint a block of flats in 12 hours. At this rate, how many workers are needed to paint the block of flats in 4 hours?

Ans: _____

34.	The ratio of the number of passengers in Train A to that in Train B is 3:2.
	When 80 passengers alighted from Train A, the ratio became 7:6.
	How many passengers remained in Train A?

Do not write in this column

Ans: _____

35. Mr. Tan had 200 apples and oranges. $\frac{1}{3}$ of the apples and $\frac{1}{4}$ øf the oranges were rotten. He threw away 60 rotten fruits altogether. How many rotten oranges were there?

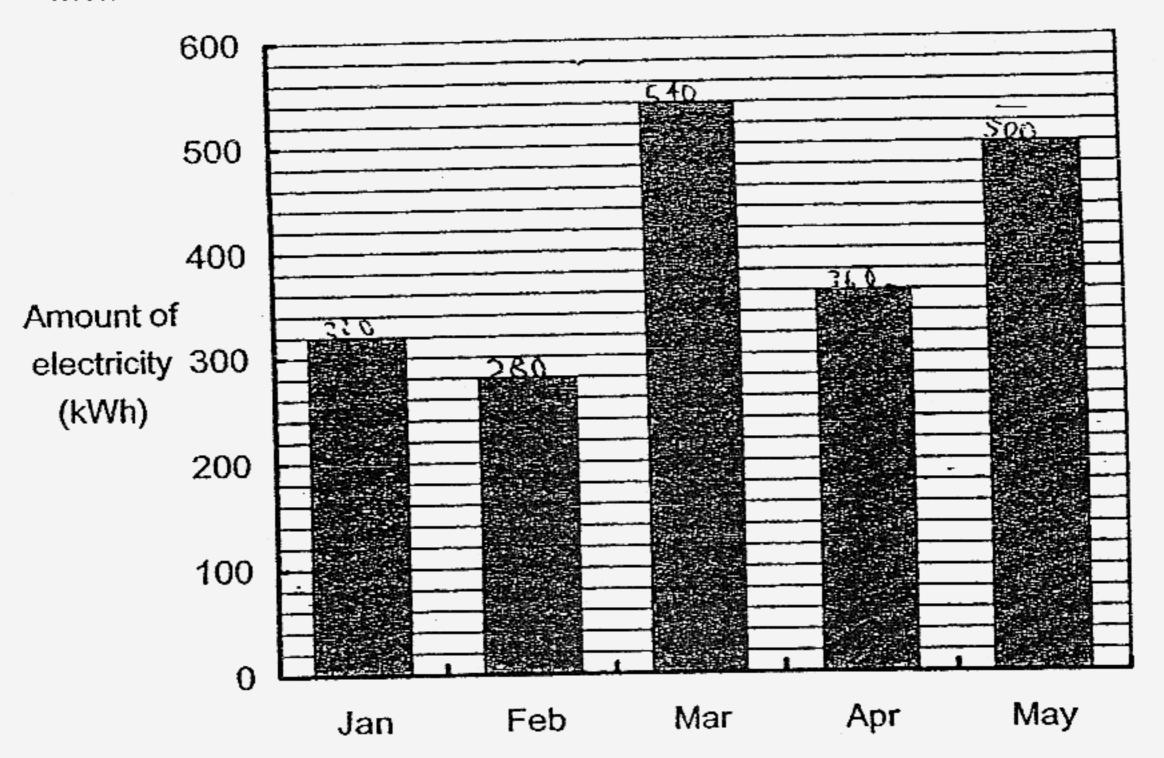
Ans:____

Name	:			()	Date:		-
Class	: Prin	ary 6 SY / C /	G/SE/P			Duration	: 2 h 15 min	
show	vour w	nswers to ques orking clearly is ackets at the er	n the space p	rovided.	The nur	nber of marks	ach question available is	•
36.	(a)	Jane is 4k ye	ars old. Her s	ister is 3	years o	lder than her.		Do not write In this column
	,	Express their						
			•					
						•		
·	/b)	-1Mbat is the r	ratio of Jane's	age to b	er siste	r's when <i>k</i> = 9	?	
	(b)	-	ur answer in t					
		(Exp1000) 00				•		
		***************************************			,	Ans: (a)	(1)	
				;	-	(b)	(2)	
37.	A gr	ocer packed 25	52 kg of rice in	nto bags	of 5-kg	and 2-kg. He I	as an equal	-
	num	ber of 5-kg bag	gs and 2-kg b	ags of ric	e. How	many bags of	rice does he	
	have	e in all?		•.				-
	-	-				•		-
			,					
			•			Ans:	(3	
							14	11/6

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38. The graph below shows the electricity consumption of the Chan family for 5 months.

Do not write In this column



(a) In which month was the electricity consumption $\frac{2}{3}$ that of March?

(b) The electricity consumed is charged at the rate of 20 cents per kWh. How much did the Chan family pay for electricity from January to May?

Ans: (a) _____(1)

(b) ____(2)

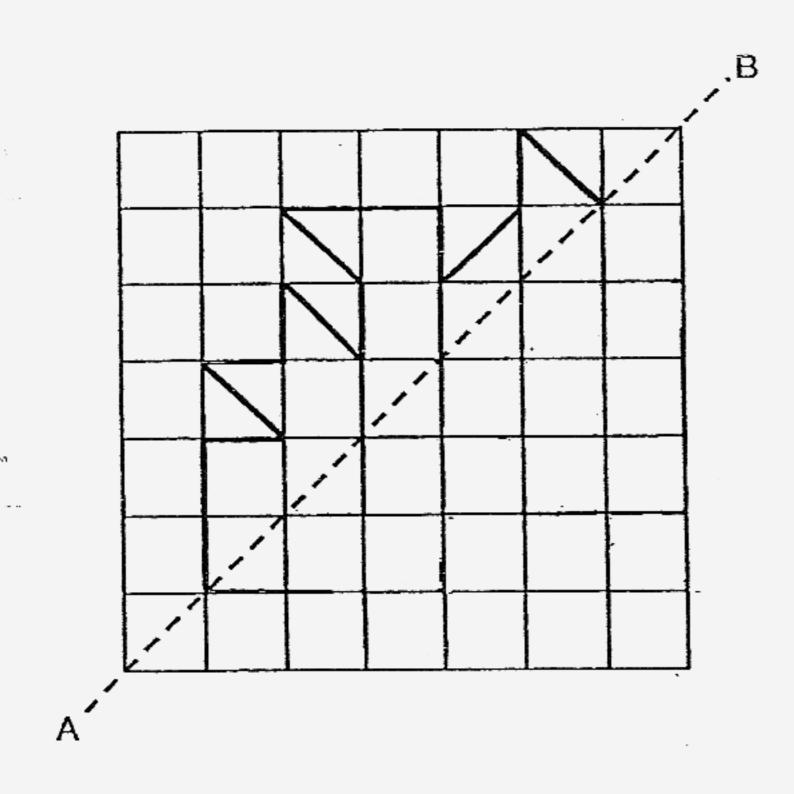
28

39.	(a)	In the space below, draw a parallelogram ABCD in which AB = 8 cm,	
<i>.</i>	(α)		Do not w
		BC = 5 cm and \angle ABC = 120°. (2)	
	Ą.		
			ľ
	(b)	Measure and write down the size of \angle DAB.	
		Ans: (b)(1)	
40.	Mav	vis and Janice have some beads each. If Mavis gives 30 beads to Janice,	
-		will have 4 times as many beads as Janice. If she gives 150 beads to	
	Jan	ice, she will have $1\frac{1}{2}$ times as many beads as Janice.	
	Find	d the number of beads Mavis has.	
		-	
			-

Ans:____(3

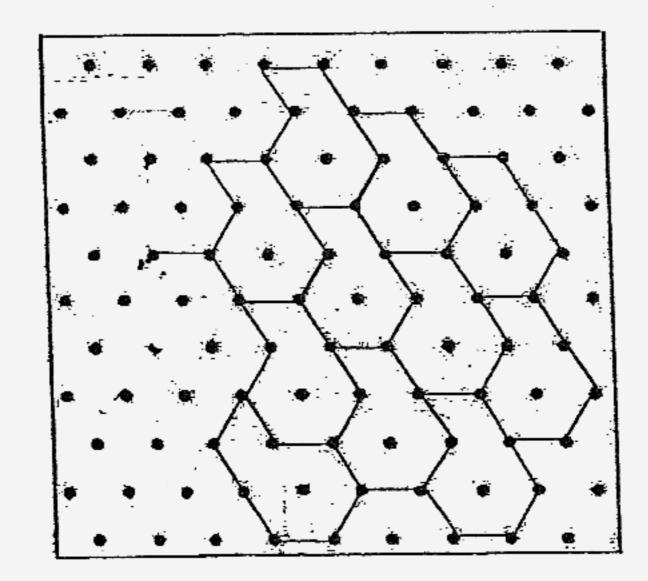
41 (a) Complete the following to form a symmetric figure about the line AB. (1)

Do not write In this column



41 (b) i) Shade the unit shape that does not fit into the tessellation below.(1)

ii) Draw 2 more unit shapes to extend the tessellation in the grid provided.(1)

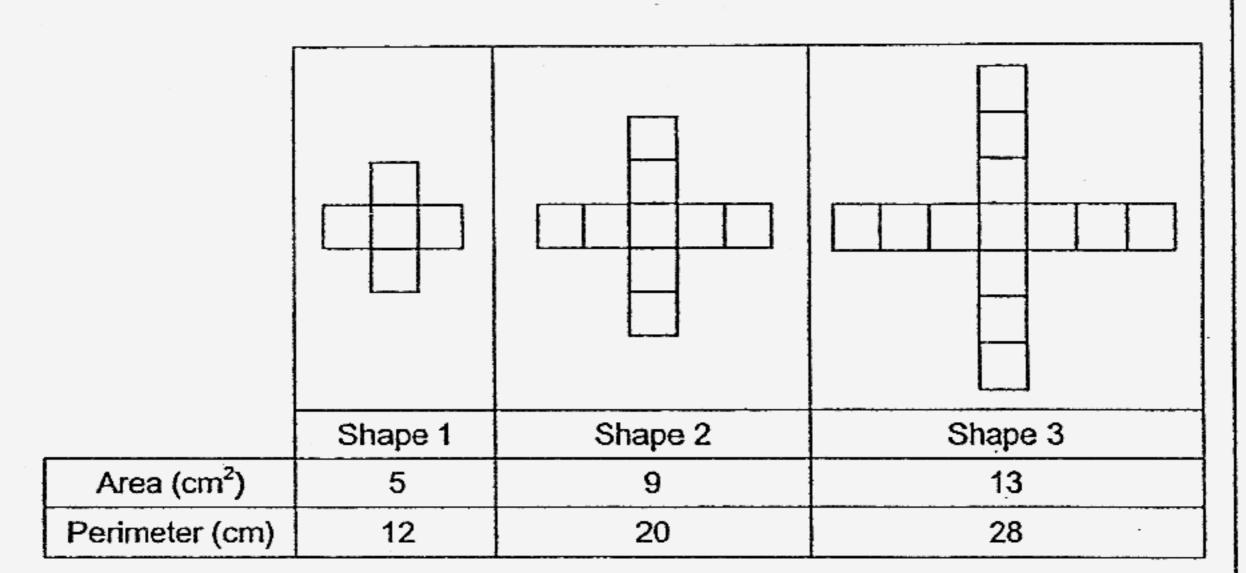


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42. The shapes in the table are made up of 1-cm squares. Study the pattern carefully and answer the questions that follow.

Do not write In this column



a) What is the perimeter of Shape 15?

b) What is the area of the shape when its perimeter is 172 cm?

Ans: (a) _____(2)

(b) ____(2)

43.	Alan and Bryan had \$480. Alan gave $\frac{2}{5}$ of his money to Bryan. In return,
	Bryan gave $\frac{3}{7}$ of his total amount to Alan. They then had the same amount
	of money. How much money did Alan have at first?

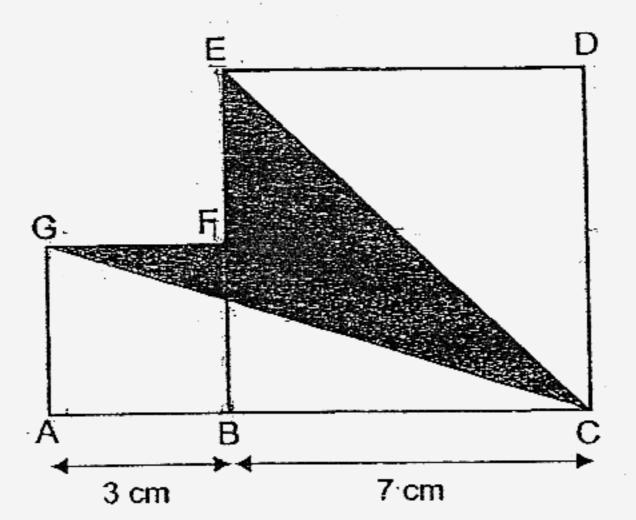
Do not write In this column

Ans:	 (4)
	 •

1/12

44. The figure is made up of a 3-cm square and a 7-cm square. Find the shaded area of the figure.

Do not write In this column



Ans: _____ (4

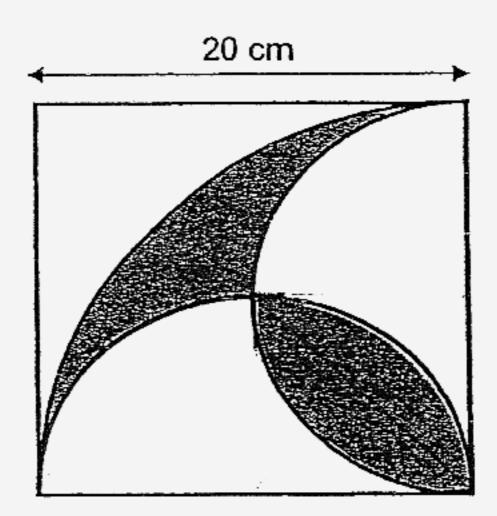
45.	When Mrs Lee was 40 years old, her son was twice her daughter's age. Mrs Lee will be twice her son's age when her daughter is 28 years old. How old will Mrs Lee be when her daughter is 20 years old?						
		,					
₹.							
	-		-				
	· •						
		Ans:	(5)				

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46. The figure shows a square of side 20 cm enclosing a quarter circle and two semicircles. Find the total shaded area of the figure π (Take π = 3.14)

Do not write In this column



Ans: _____(5

At 3 p.m., the two cars and a find the distance be	vas still 150	km away from	Town X.	
···				

Ans: _

At an exhibition, the number of male visitors was 500 more than the number Do not write 48. In this column of female visitors on the first day. On the second day, the number of male visitors decreased by 10% but the number of female visitors increased by 15%. Given that there were 1680 visitors on the second day, how many female visitors were there on the second day?

Ans: _____(5)

5

END OF PAPER

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

16. 870499

21. 52

17. 20.076

22. 30

18. $\frac{4}{9}$

23. 130km/hr

19. 600m

24. D

20. 1kg 700g

25. 5:2

26. 0.025

27. \$4

28. 20cm³

29. 15cm

30. \$18

31. \$200

32. 55°

33. 24

34. 280

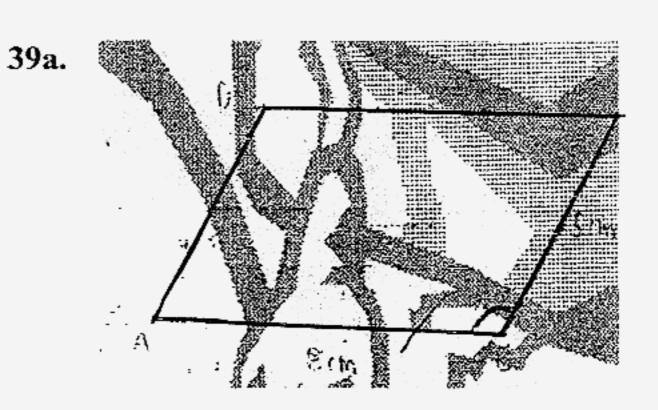
35. 20

36a. (8k+3) years old

37. 72 bags

36b. 12:13

38a. April



38b. \$400

40. 510 beads

39b. 60°

41a.

41b.

- 42a. 124cm
- 42b. 18.5cm²
- 44. 18.5cm²
- 46. 114cm²
- 48. 690 female visitors

- 43. \$100
- 45. 56 years old
- 47. 400km