

新加坡福建会馆属下五校小六统一考试 道南·爱同·崇福·南侨·光华

SINGAPORE HOKKIEN HUAY KUAN

5-SCHOOL COMBINED PRIMARY 6 PRELIMINARY EXAMINATION TAO NAN•AI TONG•CHONGFU•NAN CHIAU•KONG HWA

2007 数学 MATHEMATICS BOOKLET A

Total Time For Booklets A and B: 2 hour 15 minutes

INSTRUCTIONS TO CANDIDATES

- $\sqrt{\ }$ Do not open this booklet until you are told to do so.
- √ Follow all instructions carefully.

: 28 August 2007

√ Answer all questions.

Date

This booklet consists of 8 printed pages.

School:	
Name:	()
Class:	

TOTAL	
TOTAL	20

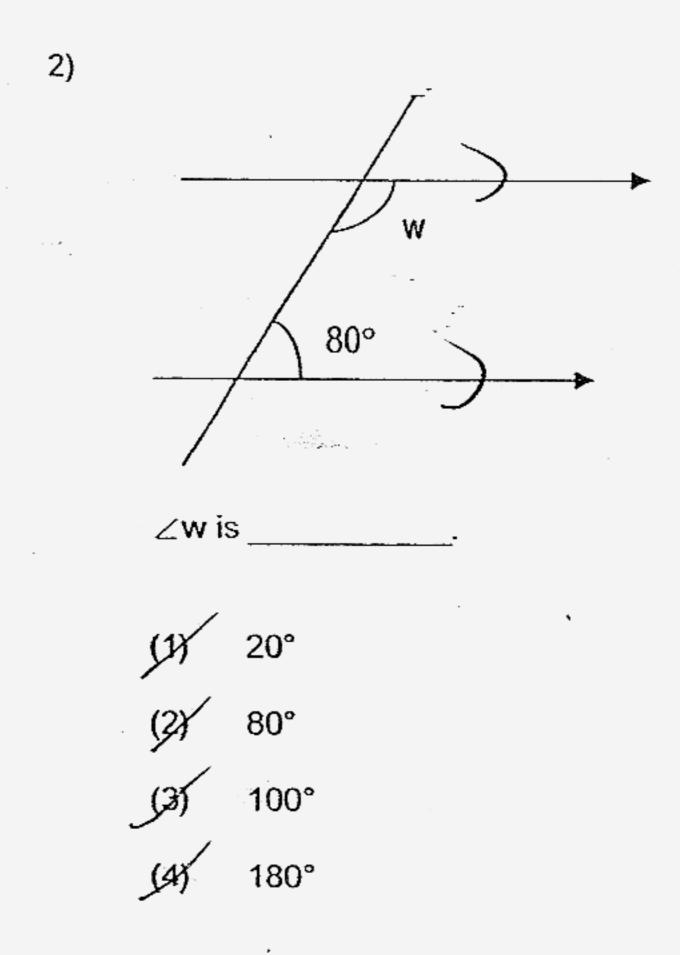
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet (OAS).

1)
$$30 \text{ min} = ____s$$

(2) 1800

(3) 1800

(4) 3000



3) Mrs Tan bought 3 ducks weighing 1.3 kg, 1.3 kg and 2.2 kg. What was the average mass of the ducks?

(2) 1.3 kg (2) 1.6 kg

(/ 4.8 kg

4) There are $\frac{2}{5}$ as many female workers as male workers in a factory. The ratio of the number of male workers to the number of female worke

The ratio of the number of male workers to the number of female workers in the factory is _____.

(y) 5:2

(2) 2:5

(3) 3:5

(4) 5:3

5) Paul had \$2a. He spent \$2 on a toy. How much money had he left?

(1) \$a

(2) \$4a

(3) \$(a-1)

(4) \$(2a-2)

6) Add 44:2 and 0-81. The digit in the tenths place is _____.

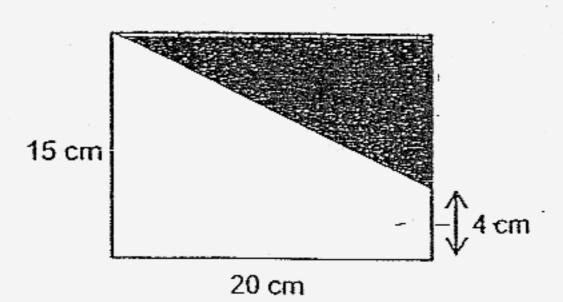
- (1) 1
- (2) 0
- (3) 5
- (A) 4

7) Which of the following has the largest value?

- \mathcal{L} $\frac{7}{8}$
- $\frac{9}{10}$
- (3) $\frac{11}{12}$
 - $\frac{13}{14}$

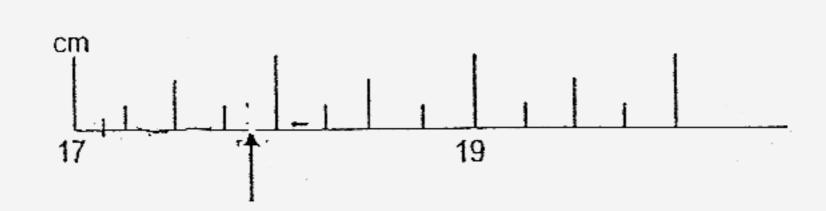
8) In the rectangle below, the area of the shaded triangle is _____ cm².

- (1) 110
- (2) 150
- (3) 220
- (4) 240



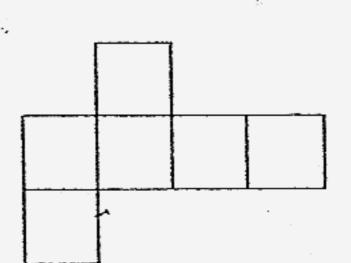
19}

The figure below shows part of a measuring tape.
What is the best estimate of the reading shown by the arrow?

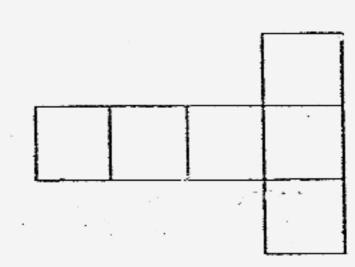


- (1) 18.5 cm
- (2) 18.3 cm
- (3) 17.8 cm
- (4) 17.5 cm
- 10) Which of the following nets when folded does not form a cube?

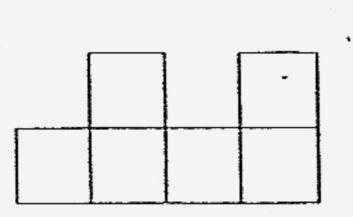
(4)



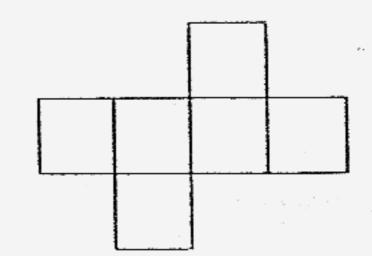
(2)



(3)



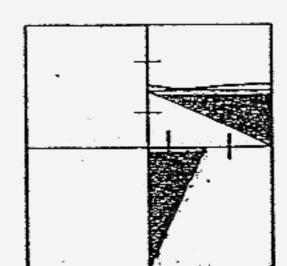
(4)



11) 78 x 62 + 10 x 62 = x 62 - 62

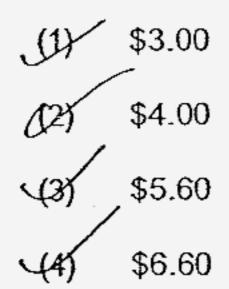
The missing number in the box is _____.

- (1) 72
- (2) 87
- (3)... 88
- J(4) 89
- 12) The figure is made up of 4 squares. What fraction of the figure is shaded?

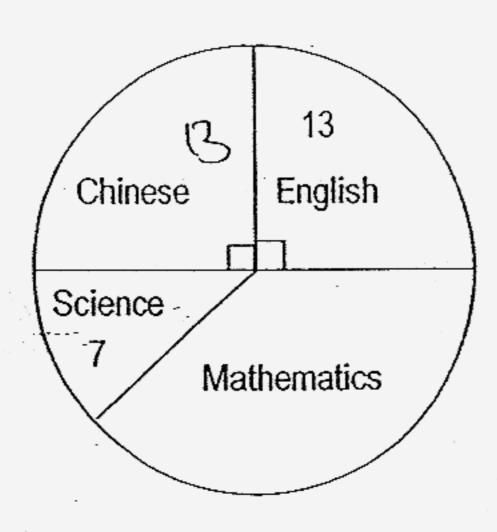


- $\sqrt{1}$ $\frac{1}{7}$
- $\sqrt{2}$ $\frac{1}{8}$
- $\frac{3}{7} \frac{6}{7}$
- $\sqrt{4}$ $\frac{7}{8}$

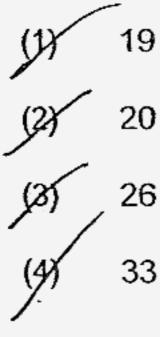
13) Siew Lee paid \$56 for 4 identical belts and 6 identical hair clips. Each belt cost \$4 more than each hair clip. Find the cost of one hair clip.



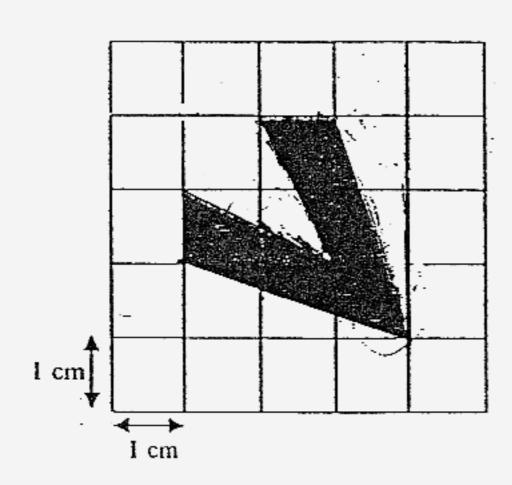
14) The pie chart below shows the avourite subjects of pupils in a class.



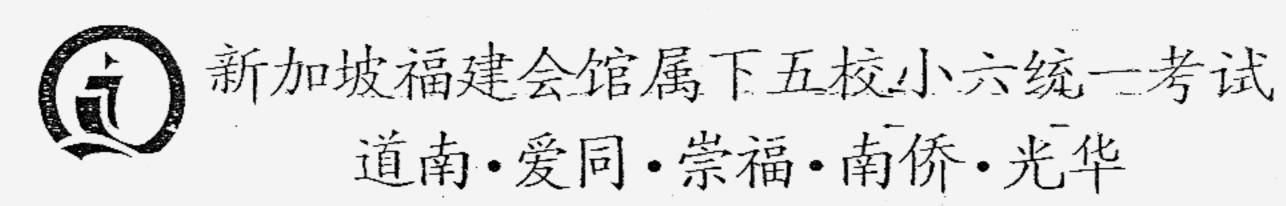
Mathematics is the favourite subject of _____ pupils.



15) What is the area of the shaded figure?



(2) 6 cm²
(2) 5 cm²
(3) 3 cm²



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2007 数学 MATHEMATICS BOOKLET B

Total Time For Booklets A and B: 2 hour 15 minutes

INSTRUCTIONS TO CANDIDATES

- √ Do not open this booklet until you are told to do so.
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This booklet consists of 20 printed pages.

School				
Name		<u> </u>		
Class	•		TOTAL	80
Date	: 28 August 2007			

Questions 16 to 25 carry 1 mark each.	Write your answers in	the spaces	provided.
For questions which require units, give	your answers in the uni	its stated.	[10 marks]

16) Find the value of $50 \div 5 \times 2$.

Ans: _____

17) Express $3\frac{1}{4}$ km in metres.

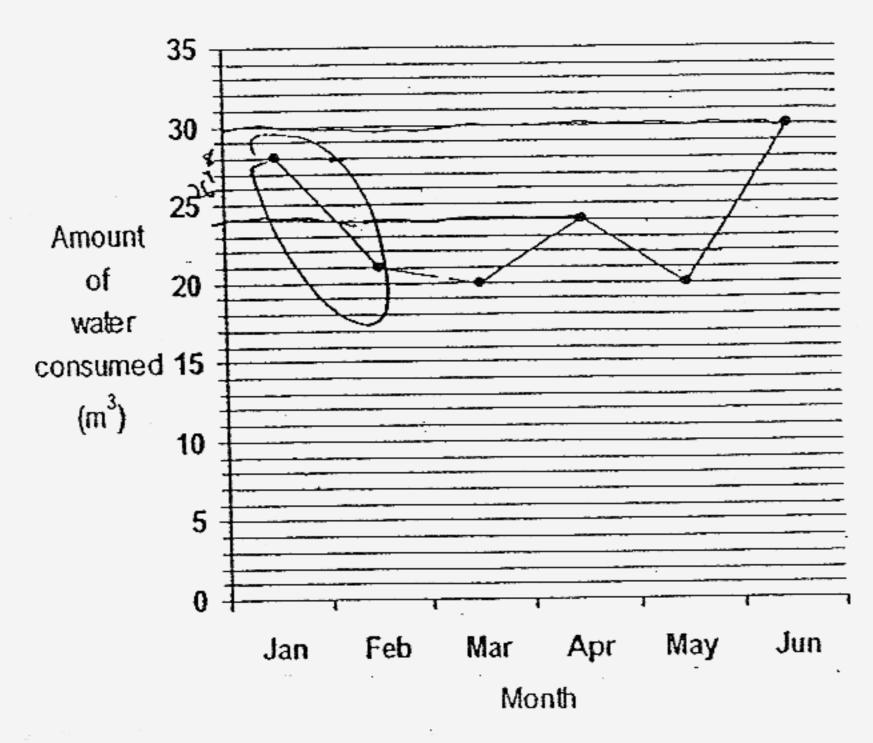
Ans: _____r

18) Find the value of $\frac{1}{2} \div 2$.

Ans: _____

19)	A carton of eg	gs cost \$2.50. Mrs Yong	paid \$10 for some car	tons of eggs.
ŕ	How many ca	rtons of eggs did she buy?		
	•			
			· -	-
			•	
			Ans:	-
				•
20)		1 1 litre of orange syrup wit		-
	equality into 5	bottles. Each bottle conta	meu	ml of mixture
				•
		,	-	
			Ans:	m
			Ans:	ml
			Ans:	ml
211	Mrc Loo gave	a Mathematics test to her		m
21)		a Mathematics test to her the number of questions	class of 20 pupils.	
21)		the number of questions	class of 20 pupils. they answered correc	tly in the table below
21)			class of 20 pupils. they answered correc	
21)		Number of questions answered correctly 8	class of 20 pupils. they answered correc	tly in the table below
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21)	She recorded	Number of questions answered correctly 8 6 age number of questions to the state of the state	class of 20 pupils. they answered correct Number of pupils /10 10	tly in the table below orrectly.

The line graph below shows the amount of water consumed by Rajah's family from January to June.

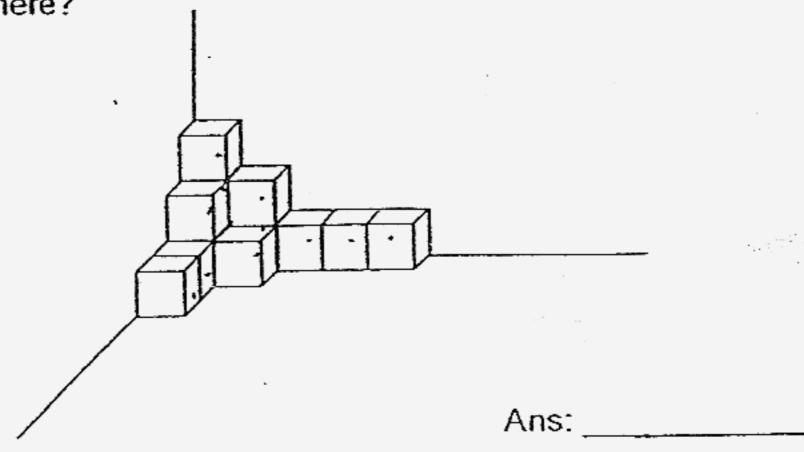


What was the largest decrease in water consumption?

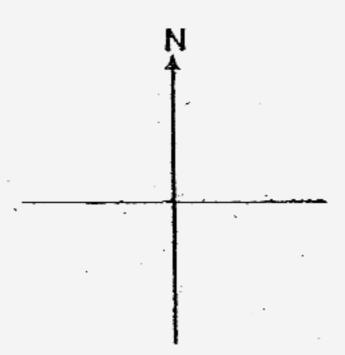
Ans:	m

Cubes of the same size are stacked in the corner of a box as shown.

How many cubes are there?



John is facing South now.
Which direction will he face if he makes a 225° anti-clockwise turn?



Ans:_____

25) Tom jogged 2 km ih 10 minutes. What was his average speed in km/h?

Ans: ____km/h

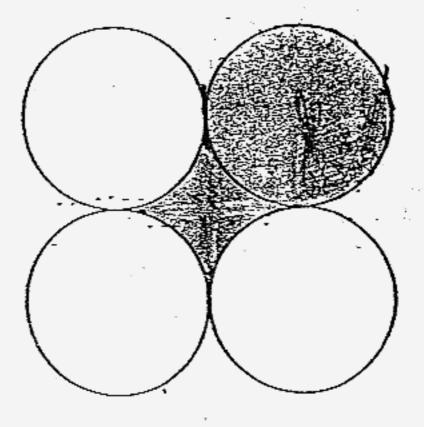
Total mark for questions 16 to 25 Questions 26 to 35 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

[20 marks]

- 26) What is the next number in this sequence?
 - 2, 6, 12, 20, 30, ____, 56

Ans:	

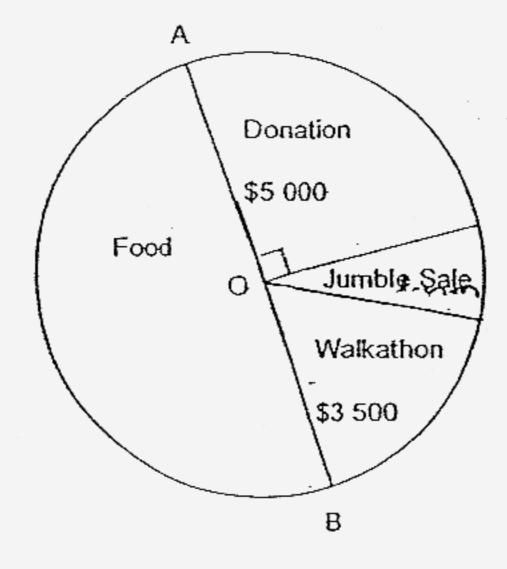
The figure is made up of 4 identical circles of radius 7 cm. Find the shaded area. (Take $\pi = \frac{22}{7}$)



Ans:	cm
rans.	

28)

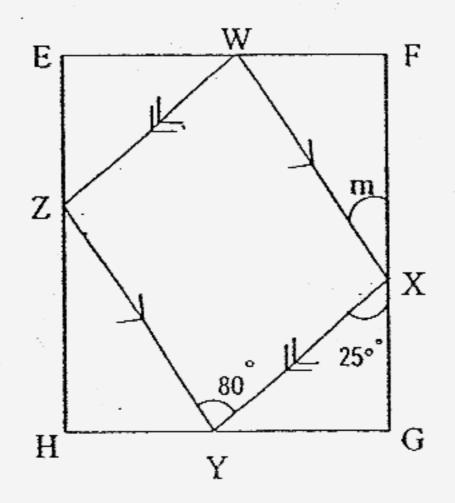
Types of Activities in a Fund-raising Project



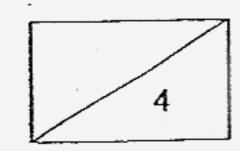
In the pie chart above, half of the money collected was from the sales of food. What percentage of the amount collected was from the jumble sale?

*		. 67
Ans:		9/6
, w.	 	

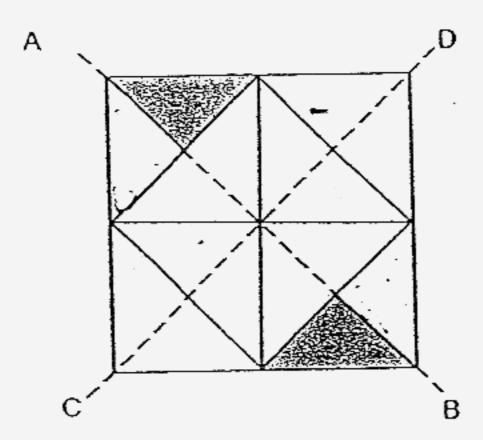
29) In the following figure, not drawn to scale, EF6H is a rectangle and WXYZ is a parallelogram. Find $\angle m$.



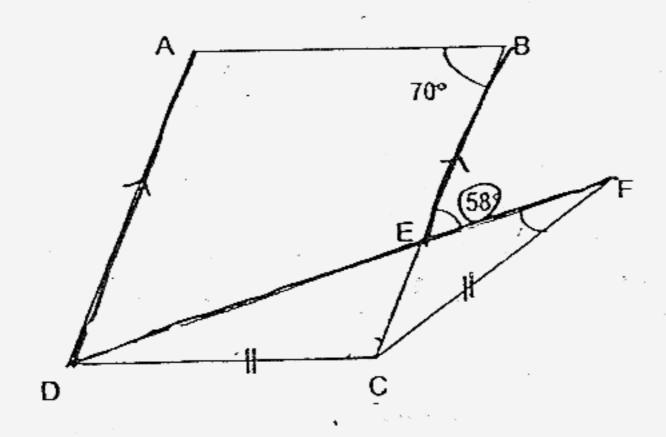
Ans:



30) The square below consists of 16 identical triangles. Shade 2 more triangles to complete the figure which has the dotted lines AB and CD as lines of symmetry.

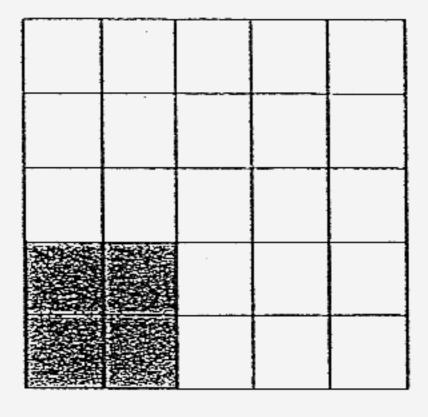


31) The figure below is not drawn to scale. ABCD is a parallelogram and DFC is an isosceles triangle. DEF is a straight line. Find ∠DFC.



Ans:

32)	How many more squares should be shaded such that the ratio of the number of
	shaded squares to the number of unshaded squares is 2:3?



Ans:

A rectangle is 10 cm long and 8 cm wide. Its area is decreased by 20% such that the new figure is a square. What is the area of this square?

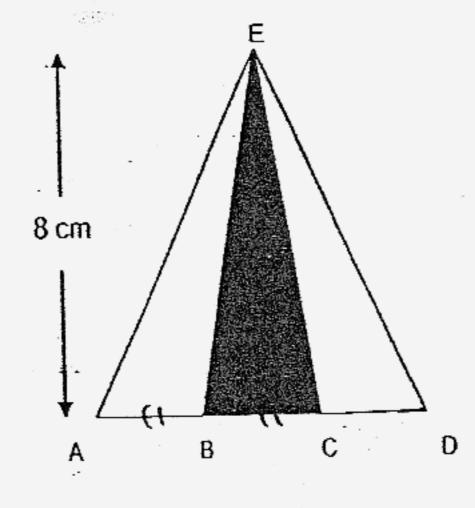
Ans: cm

4

When Ravin was 12 years old, his father was 42 years old. His father is twice as old as he is now. How old is his father now?

Ans:	years
------	-------

35) In the triangle ADE below, AD is 6 cm. AB = BC = CD. Find the shaded area.



Ans:	cm ²
	1 / 1

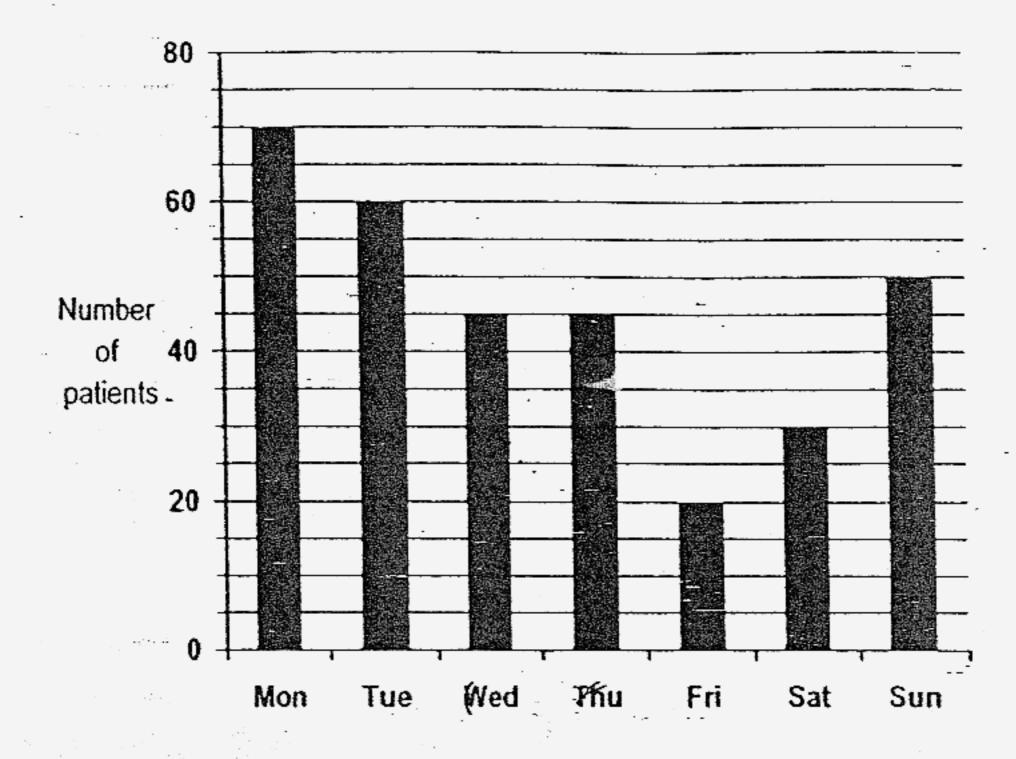
ile

For questions 36 to 48, show your working 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. [50 marks]					
36)	The entrance fee to an amusement park was \$4.50 for an adult and \$2.50 for a child. Mr Lee took some children to the park and paid a total of \$19.50 as entrance fee. How many children did he take to the park?				
	Ans:[3]				
37)	The rectangle is divided into 4 parts. Each part has a different area. Find the area of X.				

8 cm ²	10 cm ²
X	. 15 cm ²

· A ma+	• • • •			[21
Ans:	_, -	· ·	 	[၁]

The graph below shows the number of patients who visited a clinic during a certain week.

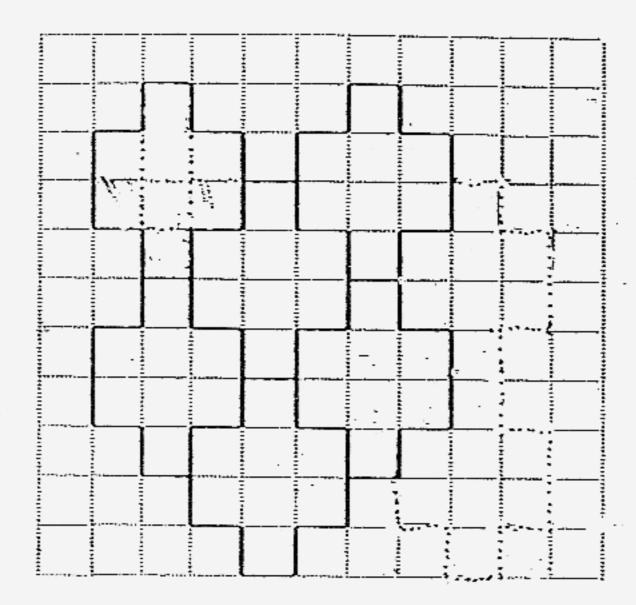


- (a) Find the total number of patients who visited the clinic on Wednesday and Thursday:
- (b) There were 40% fewer patients on Saturday than on ______.

Ans:	(a)	1 1	1
7013.	101		1

143

- 39) (a) Shade the unit shape in this tessellation. [1].
 - (b) Extend this tessellation with two more unit shapes. [2]

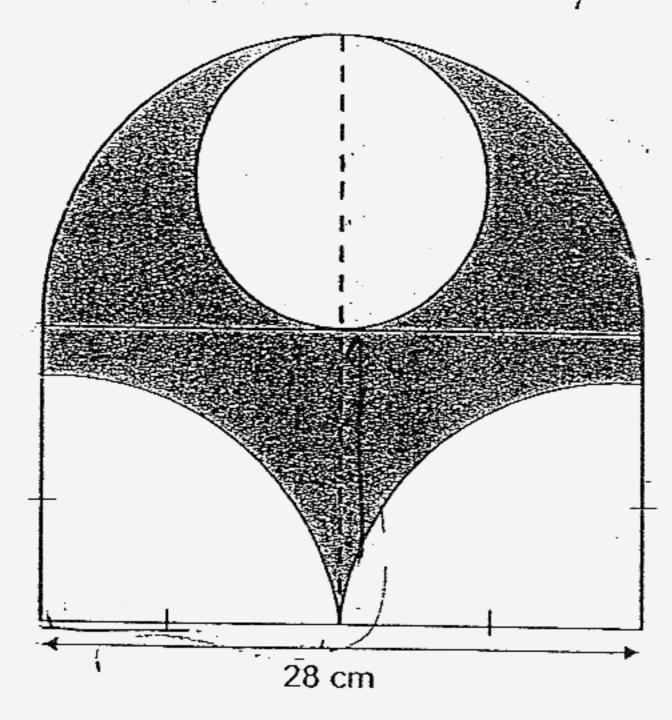


A bottle of cooking oil weighs 2 kg. A hawker uses 8 such bottles in 4 days. If he uses the same amount of oil every day, how many 5-kg tins of cooking oil will he use in 10 days?

6

41)	Ali had y stamps. His stamps equally with			e stamps. He then sh	ared all his
	(a) How many stamp	s did each	boy get in ten	ms of y ?	
è	(b) If $y = 28$, how ma	any stamps	did each boy	get?	
	-			·-	
· · ·			- ·		
					•
	-				
				Ans: (a)	[1]
				(b) :	[2]
	•				
42)	After she gave awar number of apples to How many apples of	y an equal r the number	number of eac er of oranges l	inges in the ratio of 3 the type of fruits, the rate of the rate o	tio of the
				· · · · · · · · · · · · · · · · · · ·	š.
3.				· · · · · · · · · · · · · · · · · · ·	
				;	
		-			-
-					
- .	-			Ans:	[4]
, ,	145				
• :		-			7

The figure below is made up of a semi-circle and a rectangle. Find the area of the <u>further and a region</u>. (Take $\pi = \frac{22}{7}$)



Ans: _____[4

44)	Cynthia has 32 English and Chinese books. $\frac{4}{-5}$ of the English books and $\frac{3}{4}$ of the
	Chinese books are fiction books. She has a total of 25 fiction books. How many English fiction books are there?

Ans: [4]

45)	An empty tank was filled with water from two taps. Tap A could fill the tank
	completely in 2 hours and Tap B could fill it completely in 6 hours.
	Tap A was turned on first and Tap B was turned on 20 minutes later.

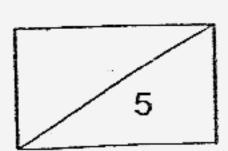
- (a) What fraction of the tank was filled with water after 20 minutes?
- (b) How long did it take to fill the rest of the tank completely with water?

Ans: (a)	[1]
(b)	[4]

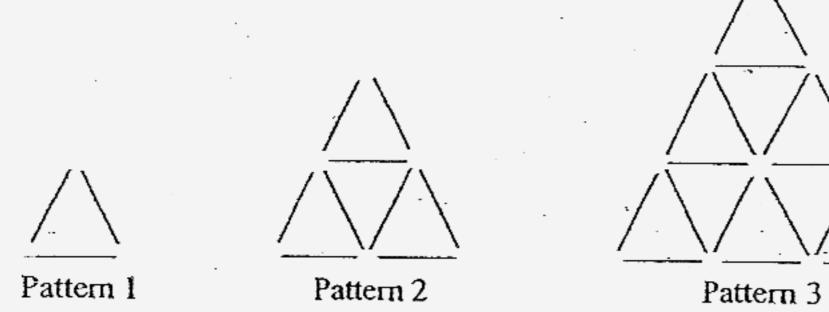
40)	At 8.30 a.m., Tom drove from Town P to Town Q at an average speed of 80 km/h.
	After driving $\frac{2}{5}$ of the journey for 4 hours, he passed Paul who was travelling
	along the same road in the opposite direction. Paul was travelling at a speed
••	which was 20 km/h slower than Tom. At what time did Paul leave Town Q?

Ans:	 	[5]

14



47) Ahmad formed the following patterns using toothpicks



- (a) How many toothpicks would Ahmad need to form Pattern 4?
- (b) If the last pattern formed by Ahmad had 165 toothpicks, what was the pattern number?

Ans: (a)		[2]
	~	

(b) Pattern____[3]

48)					bles were red. Afte 75% of the marble	
	red. Find	the total number	of marbles sh	e had at firs	st.	00 11010
waa aa		••				
Service of the service		:			**	-
.5.50		-			5.5	
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T.						v
					Ans:	[5]
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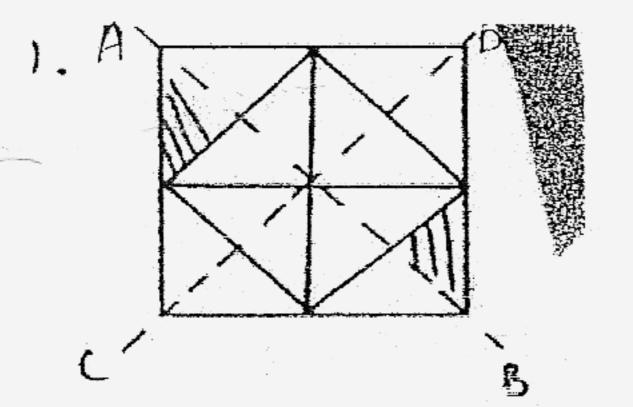
End-of-Paper

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

- 16. 20
- 17. 3250m
- 18. $\frac{1}{4}$
- 19. 4
- 20. 800mℓ

- 21. 7
- 22. $7m^3$
- 23. 13 cubes
- 24. NW
- 25. 12km/hr

- 26. 42
- 28. 7.5%
- 30.



- 27. 196cm²
- 29. 55°
- 31. 12°

- 32.
- 34. 60years

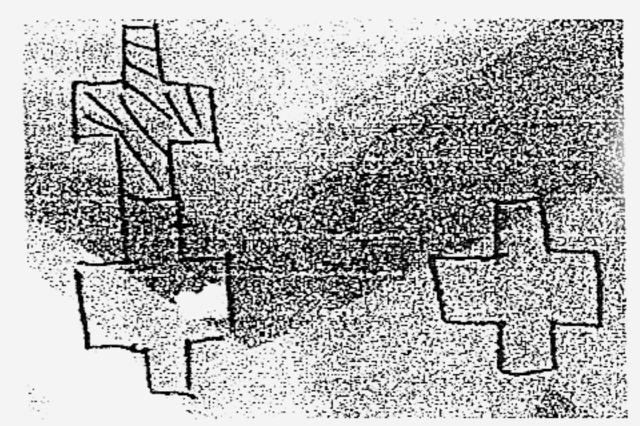
- 33. 64cm²
- 35. 8cm²

- /				
36.	- 6	chil	ldren	

38b. Sunday

39a.

39b.



40.
$$(8 \times 2kg) \div 4 = 4kg (1 day)$$

$$10 \times 4 = 40$$

$$40 \div 5 = 8$$

4.30am 46.

48. 375

41a.
$$\frac{(y+20)}{3}$$
 stamps

41b. 16 stamps

43.
$$\frac{22}{7} \times 7 \times 7 = 154 \text{cm}^2$$
$$\frac{22}{7} \times 14 \times 14 \times \frac{1}{2} = 308 \text{cm}^2$$

$$154cm^2 + 308cm^2 = 462cm^2$$

45a.
$$\frac{1}{6}$$

75 mins 45b.

47b. 10