



AI TONG SCHOOL

2013

SEMESTRAL ASSESSMENT 2

PRIMARY 4

MATHEMATICS

DURATION : 1 h 45 min

DATE : 23 October 2013

INSTRUCTIONS

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

Follow all instructions.

Answer all questions.

Name : _____ ()

Class : Primary 4 _____

Parent's Signature : _____
Date : _____

Section A	28
Section B	40
Section C	32
Total	100

Section A

Questions 1 to 14 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 with a 2B pencil. (28 marks)

1 54 thousands and 6 tens is the same as _____.

- (1) 5406
- (2) 54 006
- (3) 54 060
- (4) 54 600

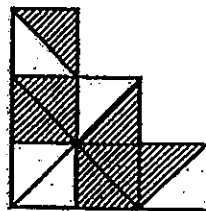
2 In which of the following are the numbers arranged from the smallest to the greatest?

(smallest) (greatest)

- (1) 6 850 , 6 058 , 6 580
- (2) 6 058 , 6 580 , 6 850
- (3) 6 580 , 6 850 , 6 058
- (4) 6 058 , 6.850 , 6 580

3 The figure shown is made up of identical triangles. What fraction of the figure is shaded?

- (1) $\frac{7}{5}$
- (2) $\frac{5}{7}$
- (3) $\frac{5}{12}$
- (4) $\frac{7}{12}$



4 Find the value of $\frac{7}{12} - \frac{1}{3}$

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

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

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

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

5 The digit 6 in 28.56 stands for 6 _____.

(1) ones

(2) tenths

(3) hundredths

(4) thousandths

6 Write $7\frac{2}{25}$ as a decimal.

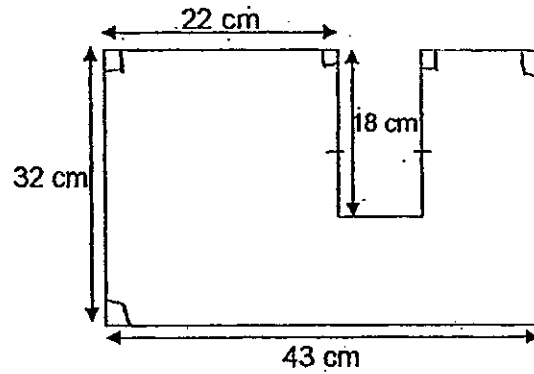
(1) 7.08

(2) 7.2

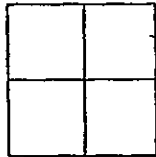
(3) 7.225

(4) 7.8

- 7 The figure below is not drawn to scale. Given that all the lines meet at right angles, find the perimeter of the figure.



- (1) 115 cm
 (2) 133 cm
 (3) 168 cm
 (4) 186 cm
- 8 The figure below has an area of 36 cm^2 . It is made up of 4 identical squares.



If the squares were rearranged to form the rectangle below, what is the perimeter of this rectangle?



- (1) 30 cm
 (2) 60 cm
 (3) 90 cm
 (4) 180 cm

The table below shows the number of P4 pupils taking part in different activities at the start of LiveWell one afternoon. Each pupil took part in only one activity.

Study the table carefully and answer questions 9 and 10.

Activity	Camp Craft	First Aid	Outdoor Cooking	Rock Climbing
Number of pupils	95	59	56	70

9 $\frac{1}{5}$ of all the participants took part in one of the activities. Which activity was this?

- (1) Camp Craft
- (2) First Aid
- (3) Outdoor Cooking
- (4) Rock Climbing

10 Midway through LiveWell, some stoves got damaged. 10 pupils from Outdoor Cooking had to stop their activity and join the pupils for Camp Craft instead. Which one of the following tables correctly shows the number of participants in the end?

(1)

Activity	Camp Craft	First Aid	Outdoor Cooking	Rock Climbing
Number of pupils	85	59	46	70

(2)

Activity	Camp Craft	First Aid	Outdoor Cooking	Rock Climbing
Number of pupils	105	59	46	70

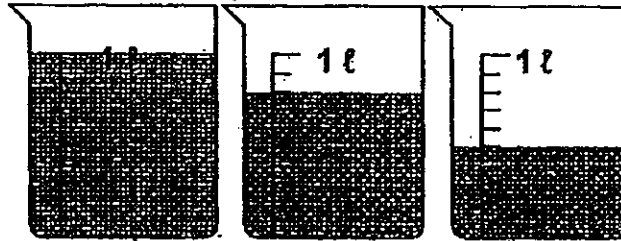
(3)

Activity	Camp Craft	First Aid	Outdoor Cooking	Rock Climbing
Number of pupils	95	59	56	70

(4)

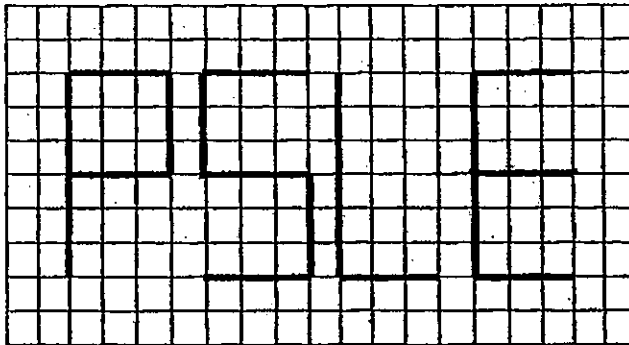
Activity	Camp Craft	First Aid	Outdoor Cooking	Rock Climbing
Number of pupils	85	59	66	70

11 How many litres of water are there in the beakers shown?



- (1) $1\frac{13}{20}$ ℓ
- (2) $2\frac{1}{2}$ ℓ
- (3) 3 ℓ
- (4) $2\frac{3}{10}$ ℓ

12 In the diagram below, the letters P, S, L and E are drawn on a square grid.



How many of the above letters has/have a line of symmetry?

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

- 13 Wan Yi checked the TV guide and found that "Junior Masterchef" would begin in 40 minutes' time.

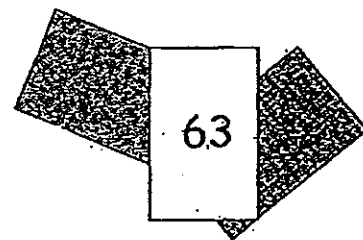
11.00 a.m.	Mister Maker Comes to Town
11.25 a.m.	Tweenies
11.50 a.m.	Little Einsteins
12.25 p.m.	Junior Masterchef
1.30 p.m.	Green Crusade
2.00 p.m.	Sesame Street
2.45 p.m.	Batman and Robin

Which programme was on when Wan Yi checked the TV guide?

- (1) Green Crusade
(2) Sesame Street
(3) Little Einsteins
(4) Tweenies
- 14 Sally has three cards. Each card has a different whole number printed on it. She added these numbers two at a time, and got these sums : 94, 73, and 105. The largest number on the three cards is 63.

What is the smallest number on the three cards?

- (1) 10
(2) 21
(3) 31
(4) 42



Section B

Questions 15 to 34 carry 2 marks each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (40 marks)

15 Write the missing number in the number pattern below.

658 , 808 , 958 , _____ , 1 258

Ans: _____

16 Two factors of 26 are 1 and 26. What are the other two factors of 26?

Ans: _____ and _____

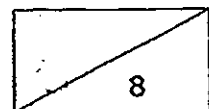
17 $6102 \div 6 =$ _____

Ans: _____

18 $\frac{5}{8} = \frac{\square}{24}$

What is the missing number in the box?

Ans: _____

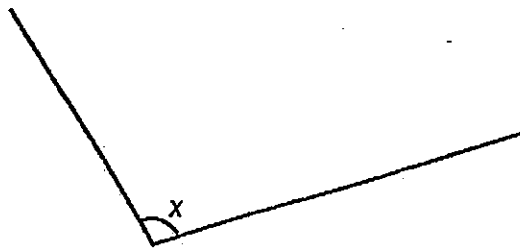


19 Which two of the fractions below are smaller than $\frac{1}{2}$?

$$\frac{2}{5}, \frac{3}{4}, \frac{4}{7}, \frac{5}{12}$$

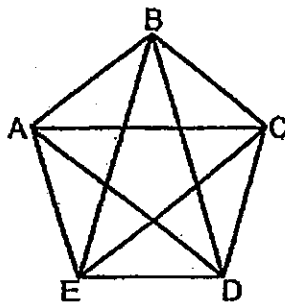
Ans: _____ and _____

20 Measure and write down the size of $\angle x$.

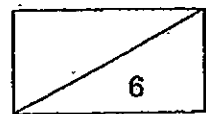


Ans: _____

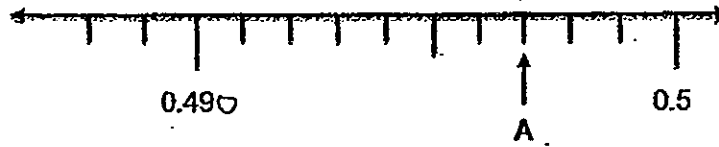
21 In the figure, one of the lines is parallel to BC. Which line is parallel to BC?



Ans: _____



22 Write the decimal represented by A.

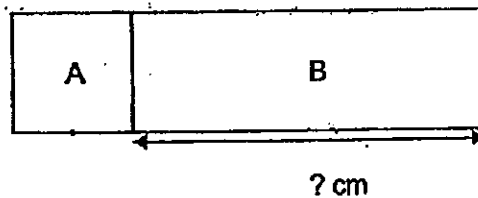


Ans: _____

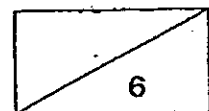
23 Find the value of 7.09×8 .

Ans: _____







24 The figure below is made up of Square A and Rectangle B.
The area of Square A is 81 cm^2 and the area of Rectangle B is 252 cm^2 .
What is the length of Rectangle B?



Ans: _____ cm

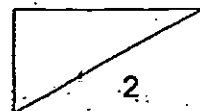


- 25 The grid shows the location of some landmarks in Amy's neighbourhood.
The theatre is north of the library.

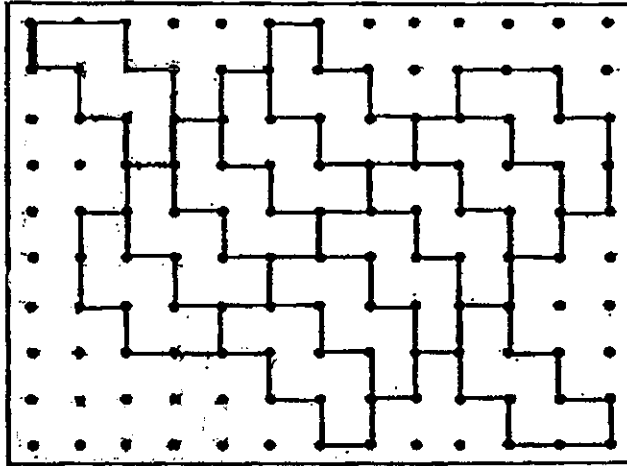
 Theatre			 Bus Interchange
	 Music School		
 Library		 Supermarket	
		 Football Field	



- (a) The bus interchange is to Amy's northeast and the library is to her west.
Mark an X on the grid to show where Amy is.
- (b) Shade the box on the grid to show the apartment block which will be built southeast of the supermarket.



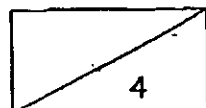
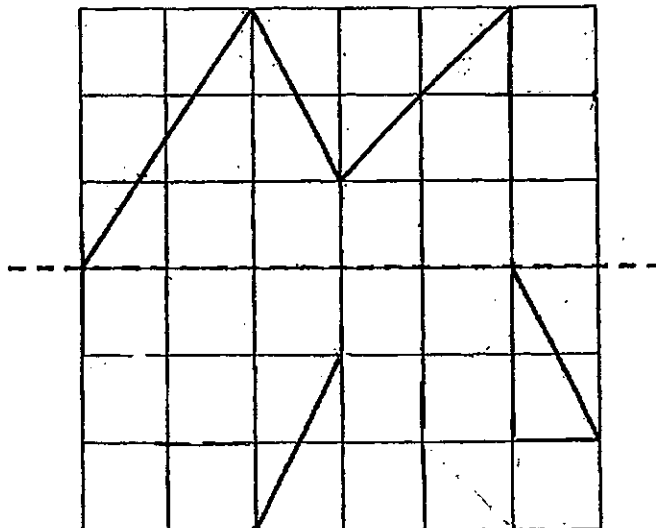
26 Study the tessellation below carefully.



In the space above,

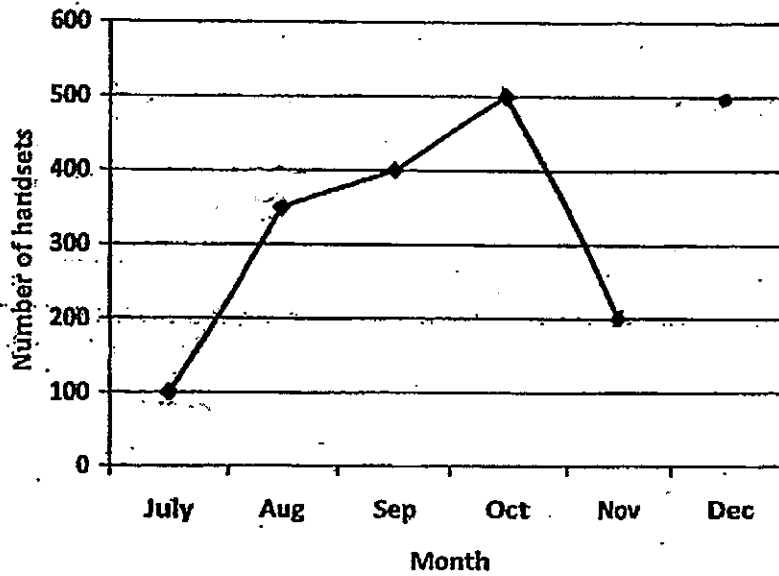
- (a) shade a unit shape.
- (b) extend the tessellation by drawing one more unit shape.

27 Doris drew a symmetric figure with the dotted line as a line of symmetry. However, she erased some lines by mistake. Help her complete the symmetric figure in the grid below.



The line graph below shows the number of handsets sold every month from July to December at Mobile Communications Shop.

Study the graph carefully and answer questions 28 and 29.

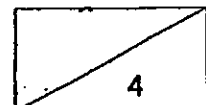


- 28 The number of handsets sold in December was equal to the total number of handsets sold in July and September.

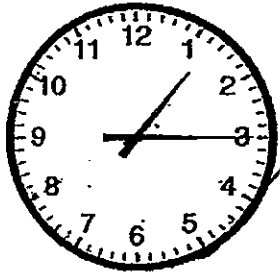
Complete the line graph above to show the number of handsets sold in December.

- 29 Which month showed a decrease in sales compared to the previous month?

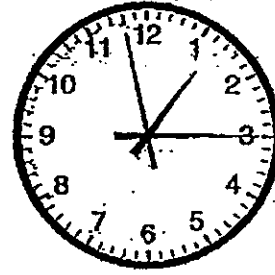
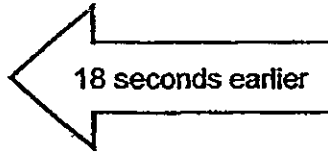
Ans: _____



- 30 Draw the missing second hand in Clock A to show the correct time.



Clock A



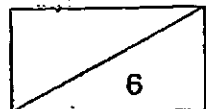
Clock B

-
- 31 Faridah has a mass of 23.4 kg. She is 6.75 kg heavier than her brother. What is her brother's mass? Round off your answer to the nearest tenth.



Ans: _____ kg

-
- 32 Li Ling has fewer than 20 sweets. If she packs them into bags of 6 sweets each, she will have 5 extra sweets. If she packs them into bags of 5 sweets each, she will need another 3 sweets. How many sweets does Li Ling have?

Ans: _____



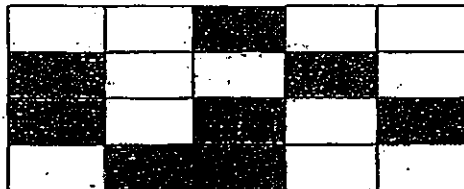
33 The pattern below is made up of dots arranged in rows and columns.

Pattern 1	Pattern 2	Pattern 3	Pattern 4	Pattern 5
		(a)		

- (a) Draw the arrangement of dots for Pattern 3 in the box above.
- (b) If the same arrangement continues, which pattern would have 72 dots?

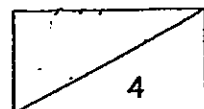
Ans: (b) Pattern _____

34 The diagram below is made up of identical blocks.



How many more blocks must be shaded so that $\frac{3}{5}$ of the diagram is shaded?

Ans: _____



Section C

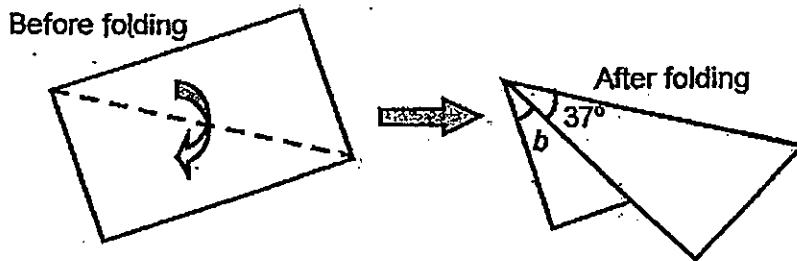
Questions 35 to 38 carry 3 marks each. Questions 39 to 43 carry 4 marks each. Show your working clearly in the space provided below each question and write your answers in the spaces provided. (32 marks)

- 35 Mr Ong bought 35 boxes of pencils. Each box contained 12 pencils. He repacked all the pencils into packets of 8.
- (a) How many pencils did Mr Ong buy altogether?
 - (b) How many pencils were left unpacked?

Ans: (a) _____ [1]

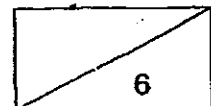
(b) _____ [2]

- 36 Linda folded a rectangular piece of paper along the dotted line as shown below.

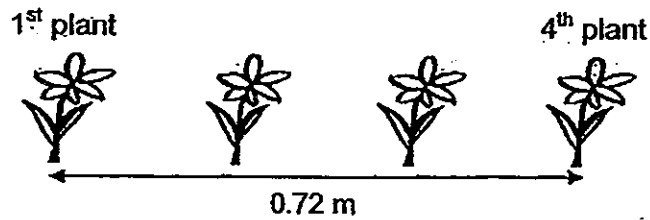


Find the value of $\angle b$.

Ans: _____ [3]



- 37 Ms Wong likes a neat garden. She plants some flowering plants in a row. The plants are an equal distance apart. The 1st plant is 0.72 m from the 4th plant.



How far is the 3rd plant from the 10th plant?

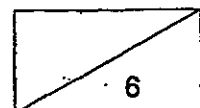
Ans: _____ [3]

- 38 After spending $\frac{1}{3}$ of his money on a shirt and \$15 on food, Ravi had $\frac{5}{12}$ of his money left. How much did Ravi have at first?

Draw and label a model as part of your solution, using the bar printed below. [1]



Ans: _____ [2]



39 Dr Ho had to travel from Singapore to Malacca for work. He booked a ticket for the bus that was scheduled to leave at 12 35. However, the bus only left at 13 20.

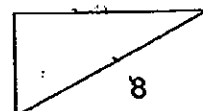
- (a) How much later than the scheduled time did the bus leave?
(b) If the journey took 3 h 20 min, at what time did Dr Ho reach Malacca?

Ans: (a) _____ [2]

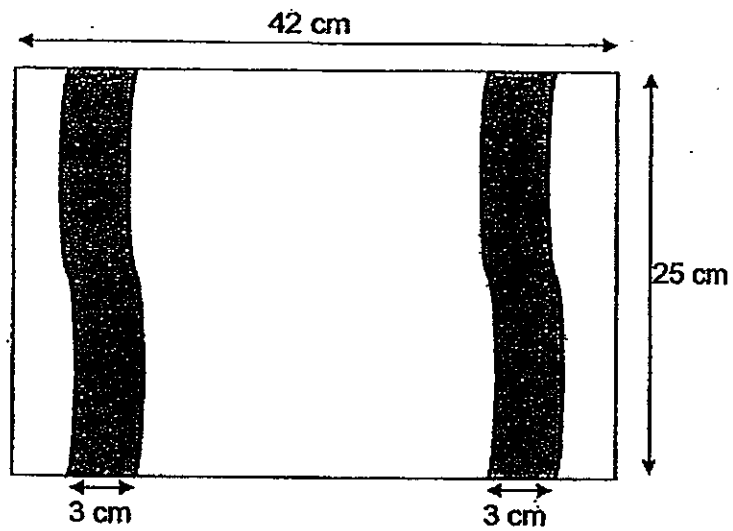
(b) _____ [2]

40 Bruce and Charles had an equal amount of money. Bruce spent $\frac{1}{3}$ of his money on some books while Charles spent $\frac{1}{2}$ of his money on some DVDs. If Charles spent \$27 more than Bruce, how much did Bruce spend?

Ans: _____ [4]

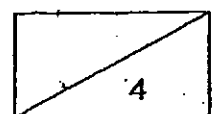


- 41 Granny Smith bought a white rectangular towel with two identical wavy grey strips as shown:



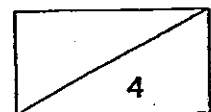
Each wavy strip has a width of 3 cm as shown in the diagram above. What is the area of the white part of the towel?

Ans : _____ [4]

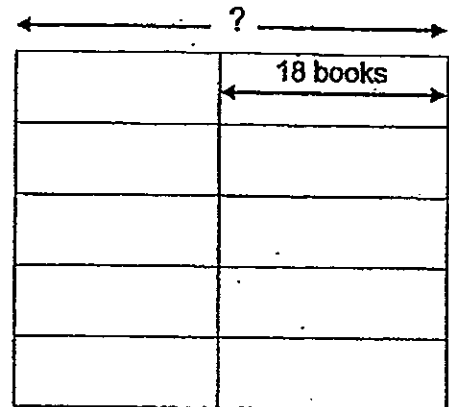


- 42 Anna wanted to give \$1.50 to Bella so that they would both have the same amount of money. In the end, however, Bella gave \$1.50 to Anna instead. Anna ended up with 6 times as much money as Bella. How much did Bella have in the end?

Ans: _____ [4]

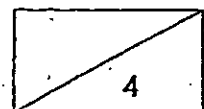


- 43 Joseph had 5 shelves of books. At first, each of the shelves held an equal number of books. Later, he selected 18 books from each shelf to be given away. After that, the total number of books he had left was equal to the total number of books on 2 shelves at first. How many books were there on each shelf at first?



Ans : _____ [4]

End-of-paper
Check your work carefully.





ANSWER SHEET

EXAM PAPER 2013

SCHOOL : AI TONG

SUBJECT : PRIMARY 4 MATHEMATICS

TERM : SA2

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

Q15) 1108

Q16) 2 and 13

Q17) 1017

Q18) 15

Q19) $\frac{2}{5}$ and $\frac{5}{12}$

Q20) 103

Q21) AD

Q22) 0.497

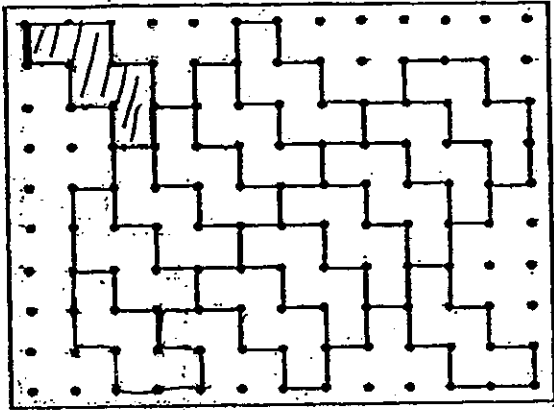
Q23) 56.72

Q24) 28

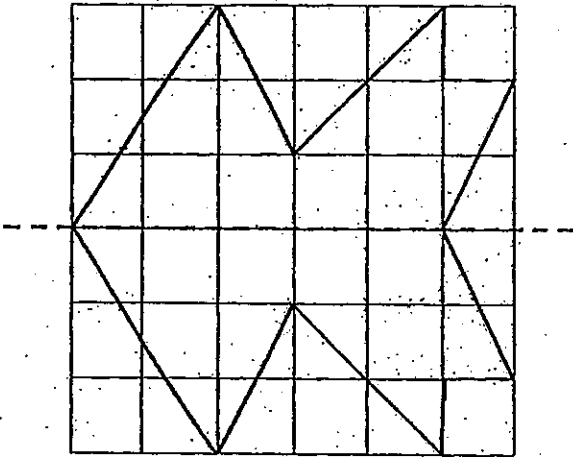
Q25)

	X		

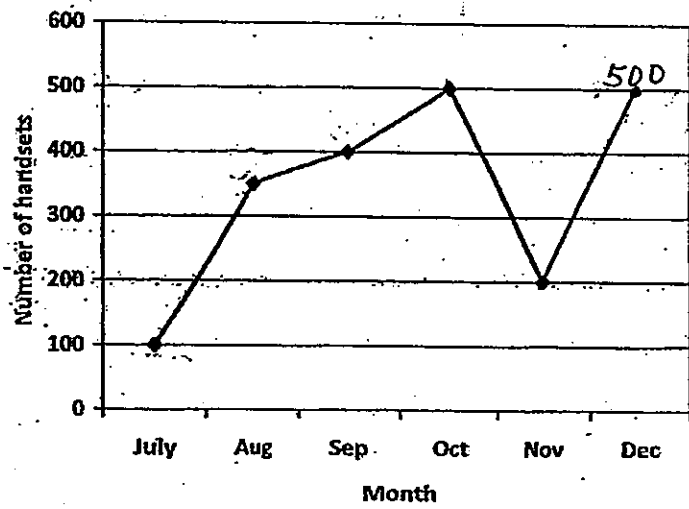
Q26)



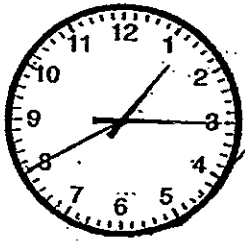
Q27)



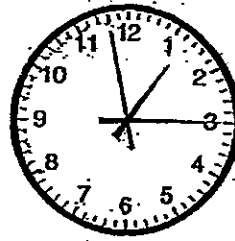
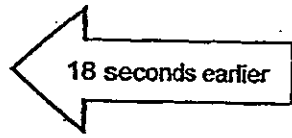
Q28)



Q29) November
Q30)



Clock A



Clock B

Q31) 16.7

Q32) 17

Q33) 8

Q34) 4

Q35a) $35 \times 12 = 420$

Ans: 420

Q35b) $420 / 8 = 52 \text{ R } 4$

Ans: 4

Q36) $37 \times 2 = 74$

$90 - 74 = 16$

Ans: 16

Q37) $0.72 / 3 = 0.24$

$0.24 \times 7 = 1.68$

Ans: 1.68m

Q38) $15 / 3 = 5$

$12 \times 5 = 60$

Q39a) Time from 1320 to 1235: 45 min

Q39b) 3 h 20 min after 1320: 16 40

Q40) $27 \times 2 = 54$

Ans: \$54

Q41) $3 \times 25 = 75$
 $75 + 75 = 150$
 $42 \times 25 = 1050$
 $1050 - 150 = 900$

Ans: 900 cm^2

Q42) $5u \rightarrow 1.5 \times 4 = \6
 $1u \rightarrow \$6 / 5 = \1.20

Q43) $18 \times 5 = 90$
 $3u: 90$
 $1u: 90 / 3 = 30$

Ans: 30 books