

**NANYANG PRIMARY SCHOOL**

**SECOND SEMESTRAL EXAMINATION  
2007**

**PRIMARY 4**

**MATHEMATICS**

**DURATION: 1 HOUR 45 MINUTES**

<b>Section A</b>	<b>/ 40</b>
<b>Section B</b>	<b>/ 40</b>
<b>Section C</b>	<b>/ 20</b>

<b>Total:</b>	<b>/ 100</b>
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Name: \_\_\_\_\_ ( )

Class: Primary 4 ( )

Date: 31 October 2007

Parent's Signature: \_\_\_\_\_

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

**FOLLOW ALL INSTRUCTIONS CAREFULLY.**

**ANSWER ALL QUESTIONS.**

**Section A**

Questions 1 to 20 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.

(Total: 40 marks)

1. Find the difference between  $\frac{7}{9}$  and  $\frac{1}{9}$ .

(1)  $\frac{8}{9}$

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

(3)  $\frac{5}{9}$

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

2. In 123.045, the digit 4 stands for \_\_\_\_\_.

(1) 4 ones

(2) 4 tenths

(3) 4 hundredths

(4) 4 thousandths

3. Express 6.375 as a fraction in its simplest form.

(1)  $6\frac{1}{8}$

(2)  $6\frac{3}{8}$

(3)  $6\frac{5}{8}$

(4)  $6\frac{7}{8}$

4. Which of the following numbers is a multiple of 7?

(1) 207 x

(2) 291 x

(3) 560 v

(4) 666 x

5. Which of the following is the best estimate of  $894 \times 23$ ?

- |     |                 |     |                 |
|-----|-----------------|-----|-----------------|
| (1) | $890 \times 20$ | (2) | $890 \times 30$ |
| (3) | $900 \times 20$ | (4) | $900 \times 30$ |

6. Find the difference between 17.028 and 45.6.  
Round off the answer to 1 decimal place.

- |     |      |     |      |
|-----|------|-----|------|
| (1) | 28.5 | (2) | 28.6 |
| (3) | 28.7 | (4) | 28.8 |

7. Vivian jogs for 2400 s every evening. Express the time in minutes.  
(40 min)

- |     |         |     |         |
|-----|---------|-----|---------|
| (1) | 40 min  | (2) | 60 min  |
| (3) | 100 min | (4) | 400 min |

8. Valerie ate  $\frac{1}{3}$  of a pizza. Phiona ate  $\frac{1}{12}$  more than Valerie. What fraction of the pizza did they eat altogether?

- |     |                |     |               |
|-----|----------------|-----|---------------|
| (1) | $\frac{2}{15}$ | (2) | $\frac{1}{4}$ |
| (3) | $\frac{5}{12}$ | (4) | $\frac{3}{4}$ |

9. A digital camera cost \$459. Mr Tan ordered 12 cameras. How much did he pay?

- |     |        |     |        |
|-----|--------|-----|--------|
| (1) | \$5408 | (2) | \$5508 |
| (3) | \$5608 | (4) | \$6598 |

10. A robot was standing 1 m away from a tree. It walked  $\frac{1}{8}$  m per step. How far would it be from the tree if it walked 90 steps in a straight line away from the tree?

- (1)  $2\frac{1}{4}$  m                      (2)  $10\frac{1}{4}$  m  
 (3)  $11\frac{1}{4}$  m                      (4)  $12\frac{1}{4}$  m

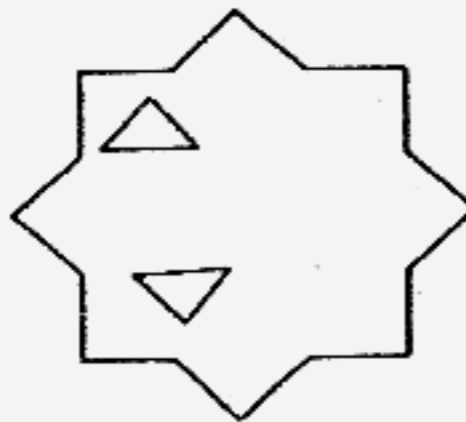
11. A cupboard costs \$159.20. A school wants to buy 76 cupboards. What is the best estimate of the total cost?

- (1)  $159 \times 76$                       (2)  $159 \times 80$   
 (3)  $160 \times 76$                       (4)  $160 \times 80$

12. Which of the following is a symmetrical figure?



A



B



C



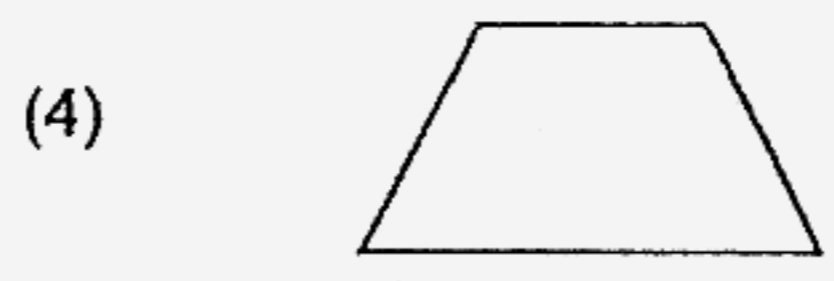
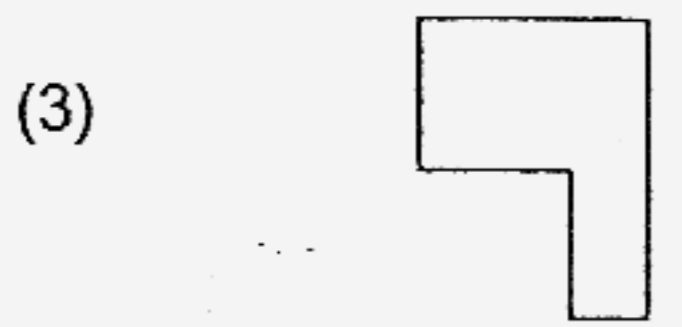
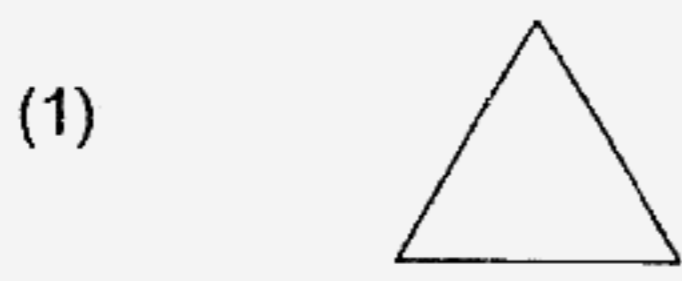
D

- (1) A                                      (2) B  
 (3) C                                      (4) D

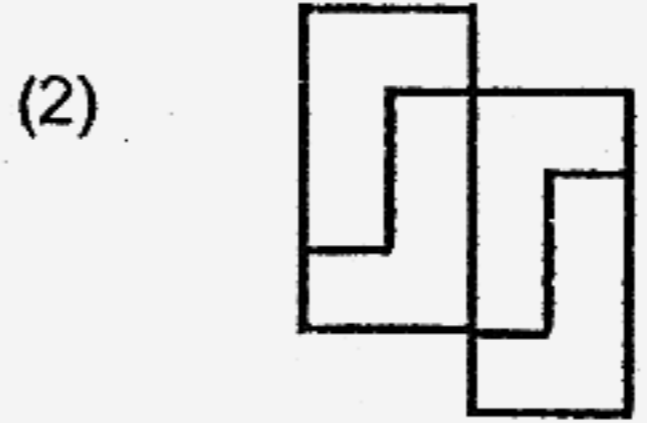
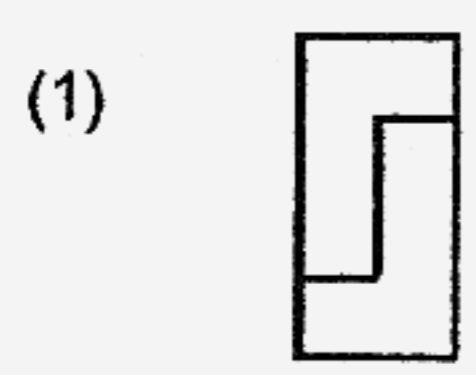
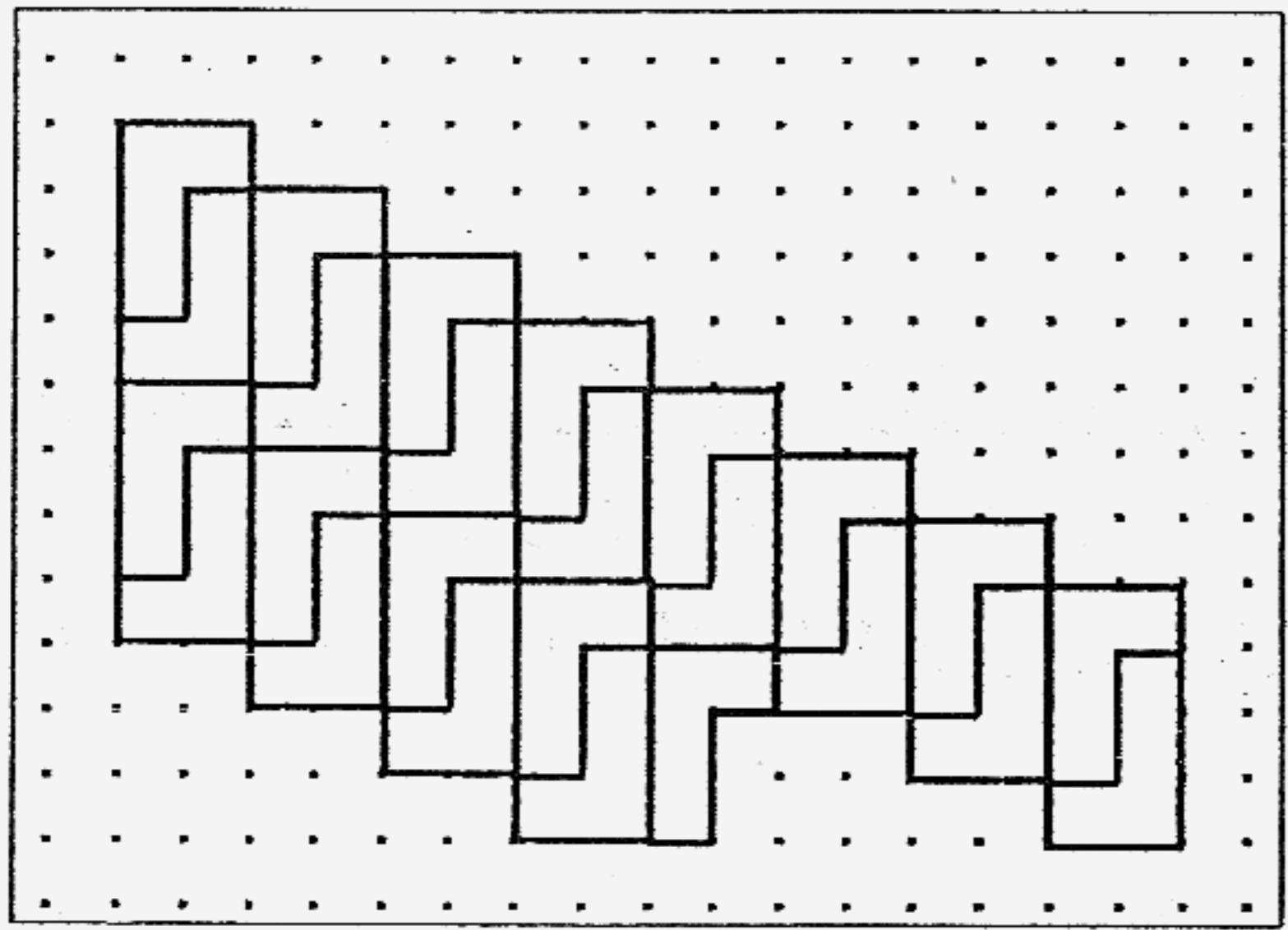
13. A square has a perimeter of 52 cm. Find its area.

- (1)  $13 \text{ cm}^2$                       (2)  $104 \text{ cm}^2$   
 (3)  $169 \text{ cm}^2$                       (4)  $208 \text{ cm}^2$

14. Which of the following shapes cannot be tessellated?

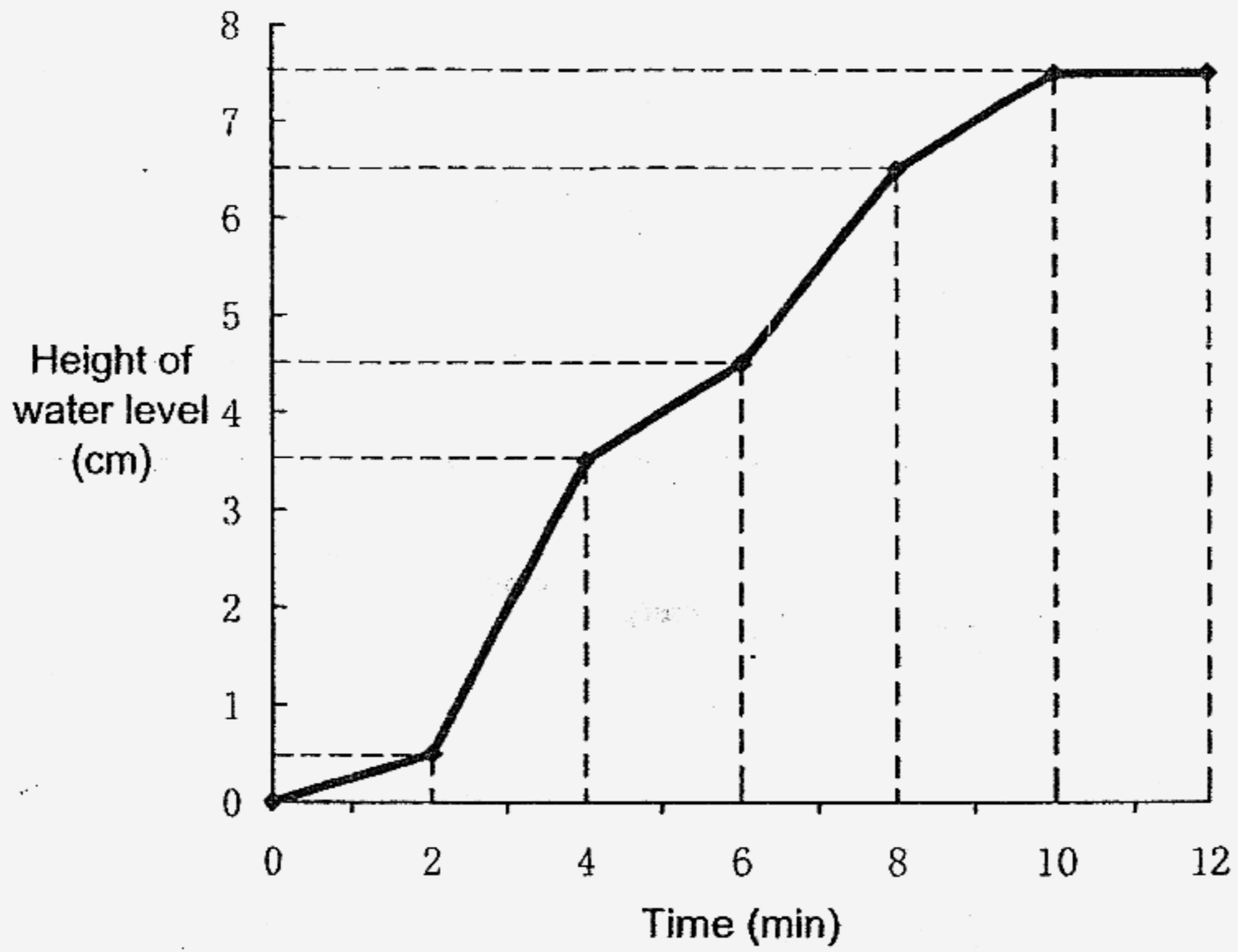


15. What is the unit shape in the following tessellation?





19. Belinda turned on a tap to fill a tank. The graph below shows the height of the water level in the tank over a period of 12 minutes.



The tap was turned on the fullest between \_\_\_\_\_ minute.

- |  |   |
|--|---|
| (1) 2 <sup>nd</sup> to 4 <sup>th</sup> | (2) 4 <sup>th</sup> to 6 <sup>th</sup>  |
| (3) 6 <sup>th</sup> to 8 <sup>th</sup> | (4) 8 <sup>th</sup> to 10 <sup>th</sup> |





**Section B**

Questions 21 to 40 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.

(Total: 40 marks)

21. Express  $3\frac{1}{12}$  as an improper fraction.

Answer: \_\_\_\_\_

22. Express  $\frac{30}{8}$  as a mixed number in its simplest form.

Answer: \_\_\_\_\_

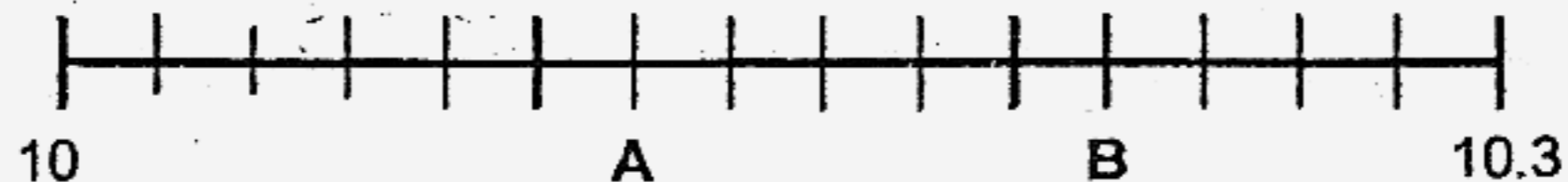
23.  $7.618 = 7 + 0.6 +$  \_\_\_\_\_ thousandths.

Answer : \_\_\_\_\_

24. What is the smallest number when rounded off to the nearest 2 decimal places would give you 46.68?

Answer : \_\_\_\_\_

25. Write the values represented by the letters A and B.



Answer : A is \_\_\_\_\_

B is \_\_\_\_\_

26. The total length of 6 identical poles is 2.4 m. Find the total length of 9 such poles.

Answer : \_\_\_\_\_ m

27. When a number is divided by 10, the quotient is 530 and the remainder is 6. What is the number?

Answer: \_\_\_\_\_

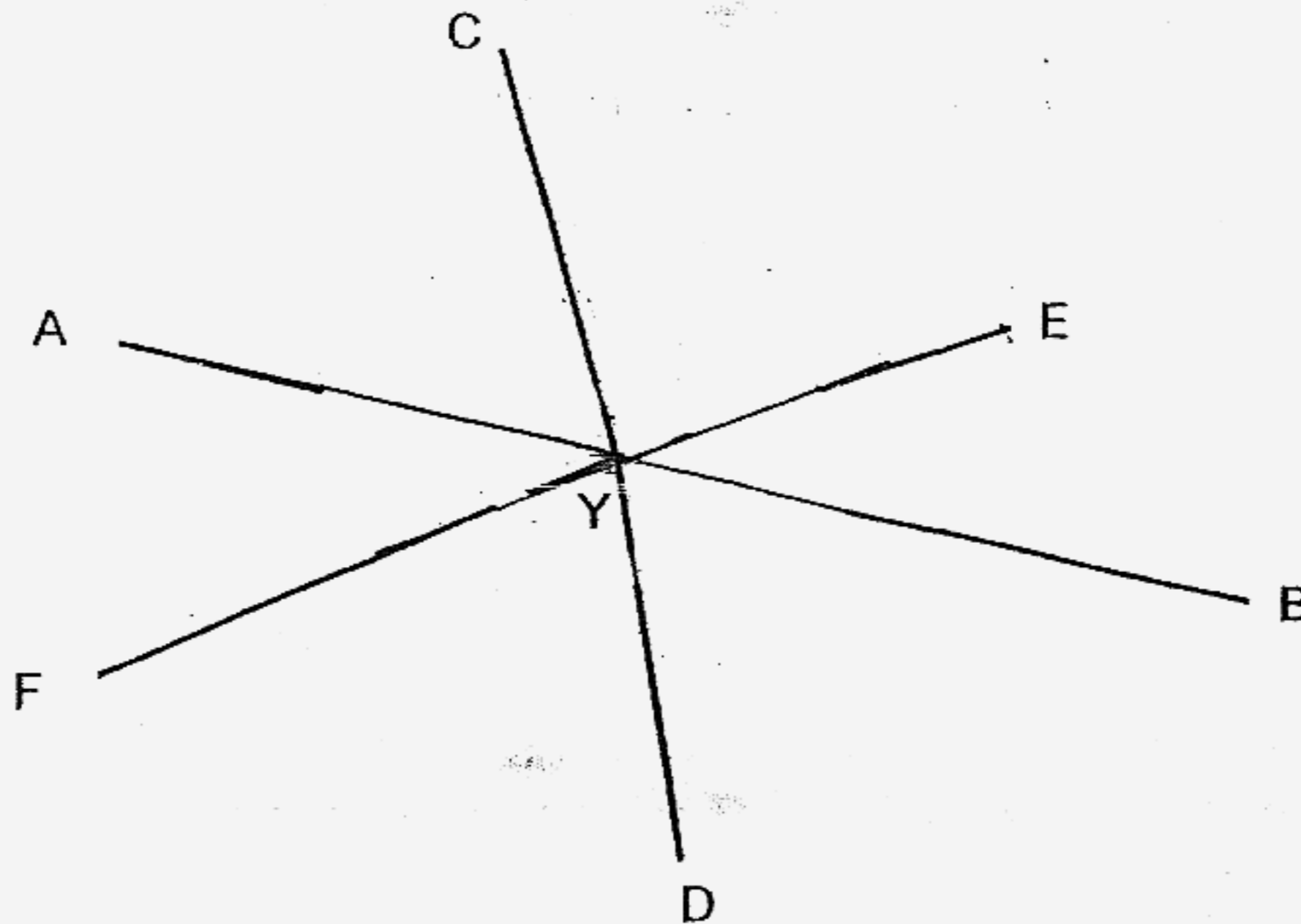
28. Mr Brown drove from Singapore to Penang at 23 50. It took him 9 hours to travel to Penang. What time would he arrive in Penang? (Give your answer in 24 hour clock)

Answer : \_\_\_\_\_

29. Mr. Lee started driving from home at 13 45. He reached his destination at 16 05. Find the duration of the journey.

Answer : \_\_\_\_\_ min

30. AYB is a straight line. Which pair of angles when added is equal to the sum of 2 right angles?



Answer :  $\angle$  \_\_\_\_\_ and  $\angle$  \_\_\_\_\_

31. List all the common factors of 42 and 105.

Answer : \_\_\_\_\_

32. Samuel bought a wallet that cost \$150. He bought a MP3 player which cost  $3\frac{1}{2}$  times as much as the wallet. How much did the MP3 player cost?

Answer : \$ \_\_\_\_\_

33. Mohammad is thinking of two fractions. The first fraction is  $\frac{1}{6}$ . The second fraction is twice as much as the first fraction. What is the sum of the two fractions?  
(Give your answer in its simplest form)

Answer : \_\_\_\_\_

34. The perimeter of a rectangular pool is 160 m. The length of the pool is three times its breadth. Find the area of the pool.

Answer : \_\_\_\_\_ m<sup>2</sup>

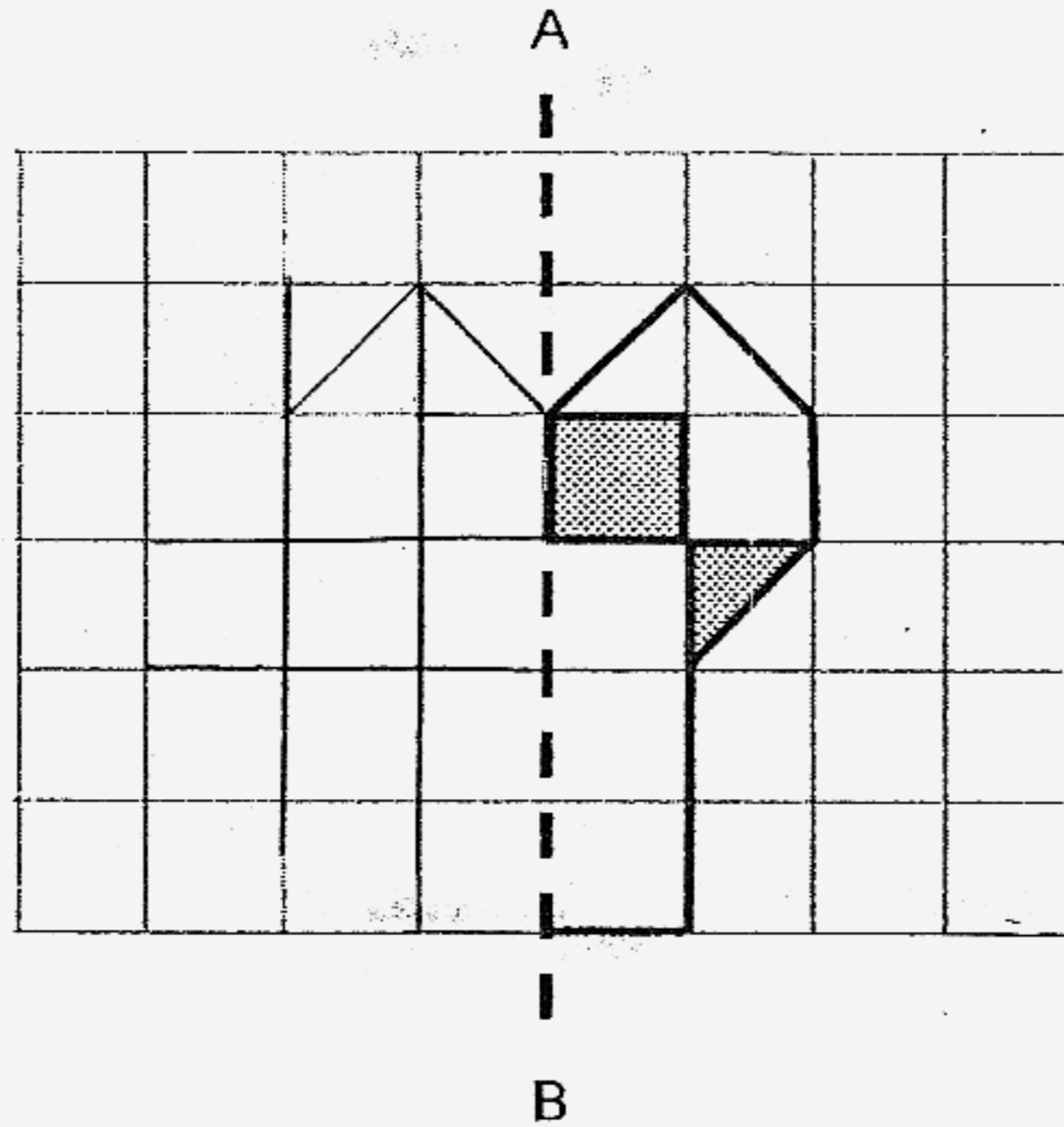
35. 100 g of ham cost \$2.05 and 100 g of sausages cost \$3.82. Xiaoming bought 400 g of ham and 1 kg of sausages. Round off the total cost to the nearest dollar.

Answer : \$ \_\_\_\_\_

36. Fruit punch is made by mixing one part orange juice with four parts pineapple juice. A total of 25 l of orange juice is used to make the fruit punch. The fruit punch is then poured equally into 500 glasses. How much fruit punch is there in each glass?

Answer : \_\_\_\_\_ l

37. Complete the figure below so that the dotted line AB is the line of symmetry.



38. Which one of the following numbers in the boxes must be taken away so that the sum of the remaining numbers can be divided by 2 and 3?

11

15

19

28

32

Answer: \_\_\_\_\_

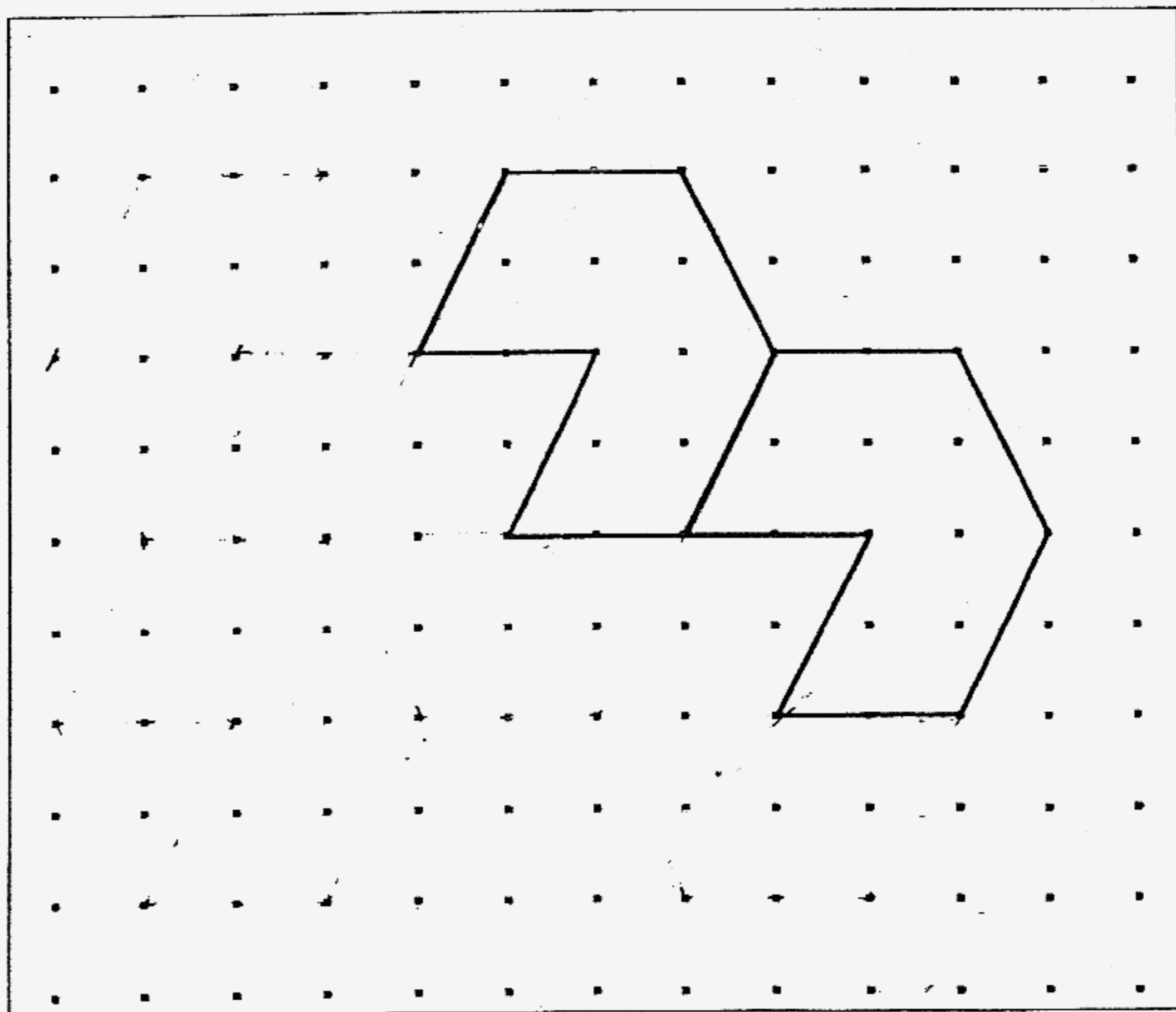
39. The table below shows the price list at a photocopy shop.

Type of paper	Price per copy	
	First 100 copies (¢)	More than 100 copies (¢)
white	5	3
purple	13	10

Mr Parker wants to make 300 copies of a one-page report. How much more does it cost to make the copies on purple paper than white paper?

Answer \$

40. The pattern in the box shows part of a tessellation. Extend the tessellation by drawing another four more unit shapes in the space provided within the box.



**Section C**

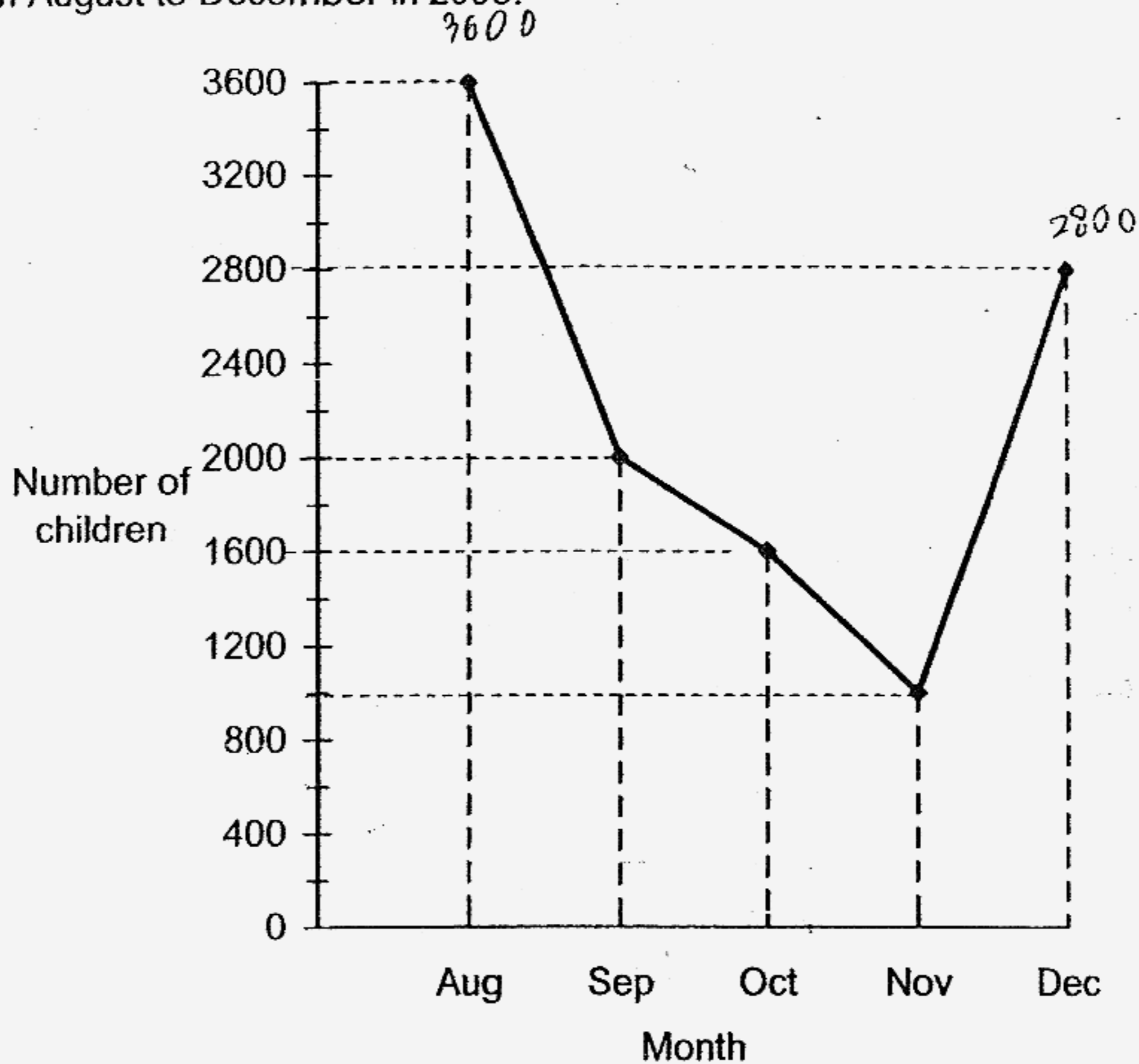
Questions 41 to 45 carry 4 marks each. Do these word problems carefully. Show your working clearly in the space provided for each question and write your answers in the spaces provided.

(Total: 20 marks)

41. Mr Samy bought three times as many cupcakes as brownies for his class party. Each brownie cost \$3.90 and each cupcake cost \$1.70. How many cupcakes did he buy if he paid a total of \$405?

Answer : \_\_\_\_\_

42. The line graph below shows the number of children at a swimming pool from August to December in 2006.



- (a) Between which two months did the number of children decrease the least?
- (b) Express the number of children in December as a fraction of the number of children in August. Give your answer in its simplest form.

Answer : (a) \_\_\_\_\_ and \_\_\_\_\_

(b) \_\_\_\_\_



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

Time	Price
07 00 – 17 00	\$1 per $\frac{1}{2}$ hour
After 17 00	\$0.50 per hour

- (a) Ms Junita parked her car at the car park from 09 30 to 20 00. How many hours did she park her car?
- (b) How much did Ms Junita pay for the parking charges?

Answer : (a) \_\_\_\_\_

(b) \_\_\_\_\_

44. The Housing Development Board used the digits 3, 4 and 5 to label some blocks of flats. Each block is labelled with a combination of any 2 numbers, for example 33, 34, 43. List all other possible combinations.

Answer : \_\_\_\_\_

45. Mr Lim ordered 7000 highlighters from a bookshop. He ordered ~~200~~ more pink highlighters than blue highlighters. He ordered twice as many green highlighters as pink highlighters.
- (a) How many ~~blue~~ highlighters did he order?
  - (b) How many green highlighters did he order?

Answer : (a) \_\_\_\_\_

(b) \_\_\_\_\_

**END OF PAPER**

Setters: Mdm Chou Shin Chieh  
Ms Mavis Tan

**Nanyang Primary School  
Primary 4 SA2 Maths Exam (2007)**

***Answer Keys***

- |       |       |       |       |       |
|-------|-------|-------|-------|-------|
| 1) 2  | 2) 3  | 3) 2  | 4) 3  | 5) 1  |
| 6) 2  | 7) 1  | 8) 4  | 9) 2  | 10) 4 |
| 11) 1 | 12) 3 | 13) 3 | 14) 2 | 15) 4 |
| 16) 3 | 17) 2 | 18) 1 | 19) 1 | 20) 4 |

21.  $\frac{37}{12}$

22.  $3\frac{3}{4}$

23. 18

24. 46.675

25. A : 10.12    B : 10.22

26. 3.6m

27. 5306

28. 0850

29. 140 mins

30.  $\angle AYE$  and  $\angle EYB$

31. 1, 3, 7, 21

32. \$525

33.  $\frac{1}{2}$

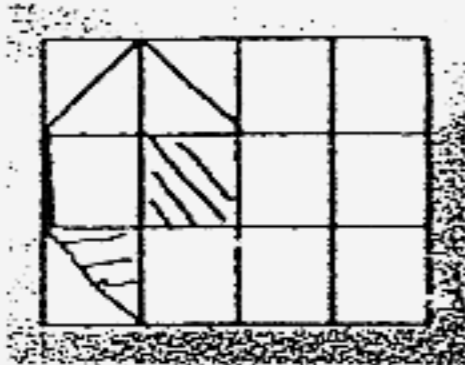
34. 1200m<sup>2</sup>

35. \$46

36. 0.25l

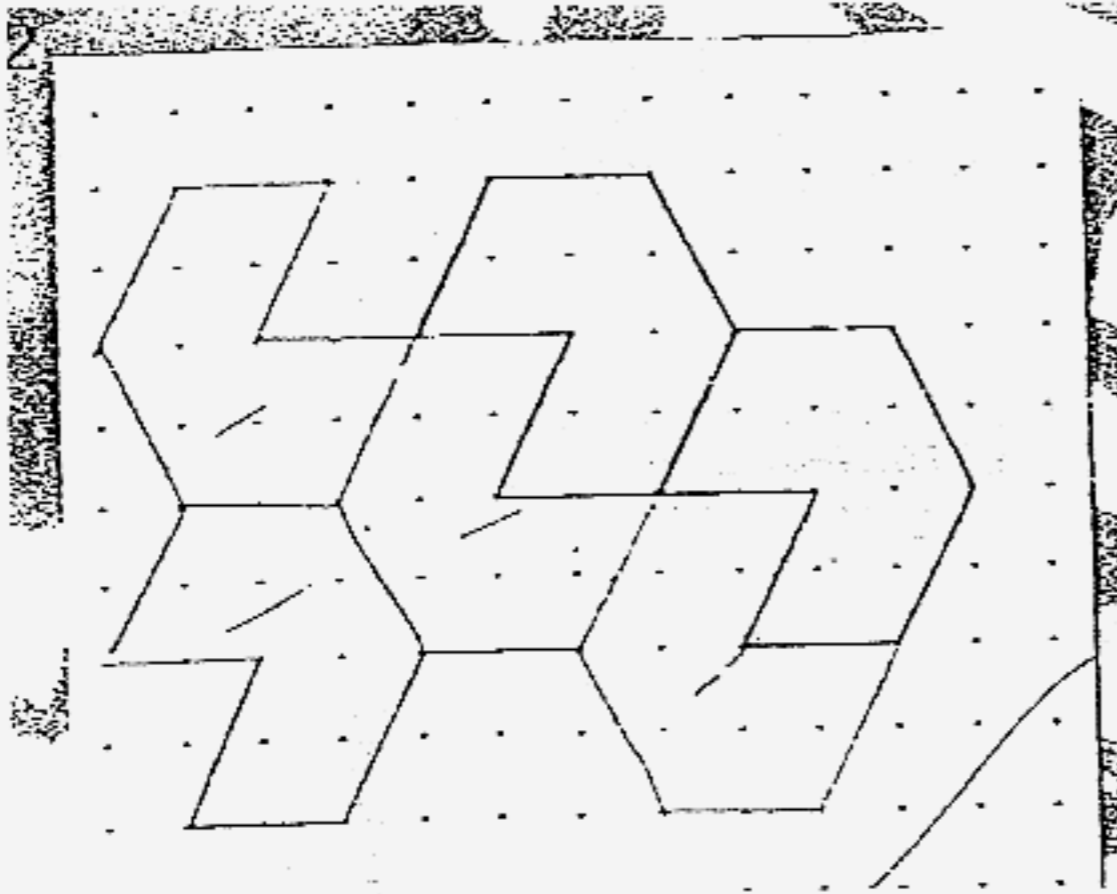
37.

38. 15



39. \$22

40.



41. 135

42a. September and October

43a. 10.5hrs

43b. \$16.50

44. 44, 35, 53, 55, 54, 45

45a. 1600

45b. 4000