

**NANYANG PRIMARY SCHOOL**  
**SECOND SEMESTRAL EXAMINATION**  
**2010**

**PRIMARY 4**  
**MATHEMATICS**

**DURATION: 1 HOUR 45 MINUTES**

<b>Section A</b>	<b>/ 30</b>
<b>Section B</b>	<b>/ 40</b>
<b>Section C</b>	<b>/ 30</b>

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

Class: Primary 4 ( )

Date: 1 November 2010

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 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.

(Total: 30 marks)

1. In which of the following numbers does the digit 4 stand for 400?

- |           |           |
|-----------|-----------|
| (1) 4 260 | (2) 2 604 |
| (3) 6 420 | (4) 6 042 |

2. Which of the following numbers when rounded off to the nearest ten becomes 72 500?

- |            |            |
|------------|------------|
| (1) 72 440 | (2) 72 496 |
| (3) 72 508 | (4) 72 560 |

3. Which of the following is a multiple of both 3 and 6?

- |       |        |
|-------|--------|
| (1) 6 | (2) 9  |
| (3) 3 | (4) 15 |

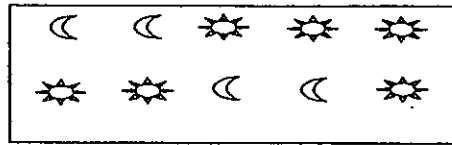
4. The value of  $408 \times 17$  is \_\_\_\_\_.

- |          |          |
|----------|----------|
| (1) 3264 | (2) 6934 |
| (3) 6936 | (4) 7236 |

5. Which of the following is the best estimate for  $19 \times 11$ ?

- |                    |                    |
|--------------------|--------------------|
| (1) $20 \times 10$ | (2) $10 \times 10$ |
| (3) $20 \times 15$ | (4) $10 \times 15$ |

6. What fraction of the shapes in the box is ☾?



(1)  $\frac{2}{5}$

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

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

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

7. Mrs Lee bought 8 presents for her family. If she needed  $1\frac{1}{4}$  m of ribbon to wrap each present, how much ribbon was needed to wrap all the presents?

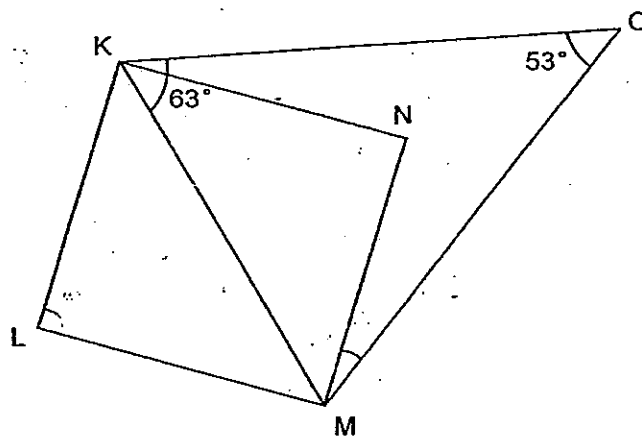
(1) 2 m

(2) 8 m

(3) 10 m

(4) 40 m

8. In the figure below, KLMN is a square. KO, KM and MO are straight lines.  $\angle OKM = 63^\circ$  and  $\angle KOM = 53^\circ$ . Find  $\angle NMO$ .



(1)  $19^\circ$

(2)  $26^\circ$

(3)  $38^\circ$

(4)  $64^\circ$

9. Express 0.05 as a fraction in its simplest form.

(1)  $\frac{1}{100}$

(2)  $\frac{1}{20}$

(3)  $\frac{1}{5}$

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

10.  $4.28 \times 6 =$  \_\_\_\_\_

~~(1)~~ 24.28

~~(2)~~ 25.68

~~(3)~~ 242.8

~~(4)~~ 256.8

11. The mass of 5 identical metal balls is 2 kg. What is the mass of 1 metal ball?

~~(1)~~ 0.04 kg

~~(2)~~ 0.4 kg

~~(3)~~ 0.44 kg

~~(4)~~ 4 kg

12. Jane took 10 min 35 s to finish her Mathematics worksheet. She took twice the time to finish her English composition. What was the total time that she took to finish both tasks?

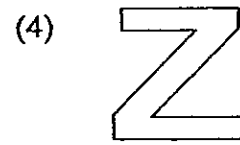
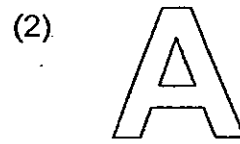
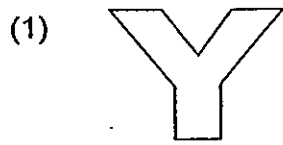
(1) 21 min 10 s

(2) 31 min 45 s

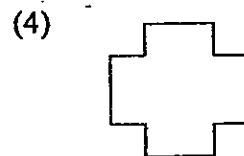
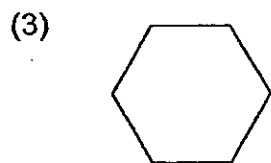
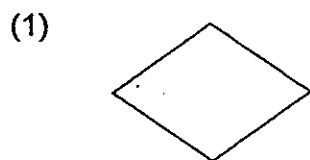
(3) 42 min 20 s

(4) 52 min 55 s

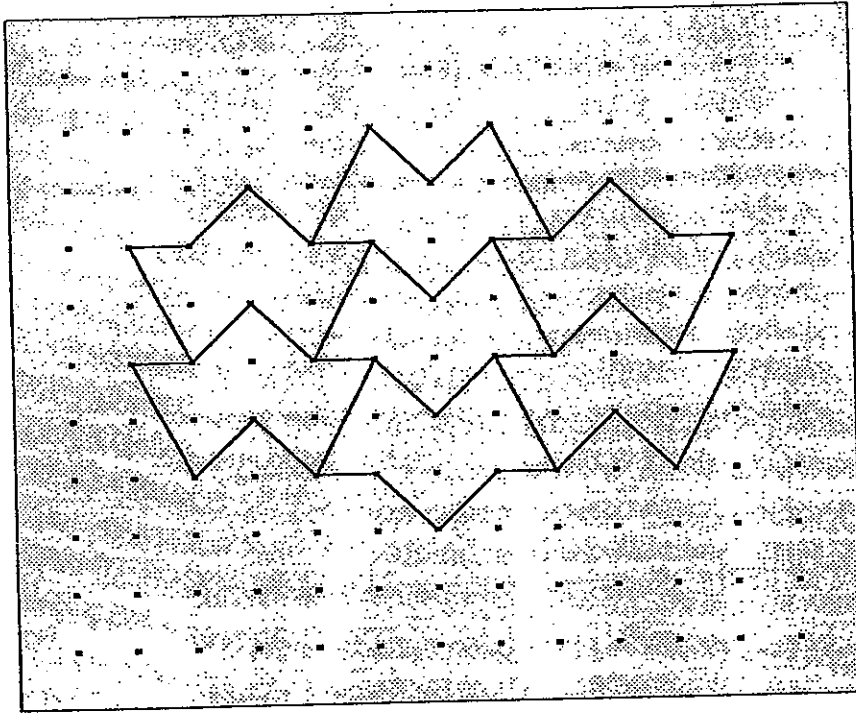
13. Which of the following figures is not a symmetrical figure?



14. Which of the following figures cannot tessellate?

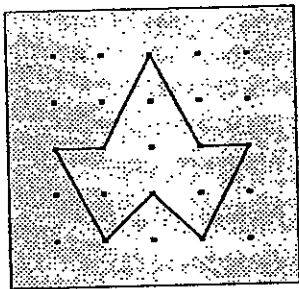


15. The pattern in the box shows part of a tessellation.

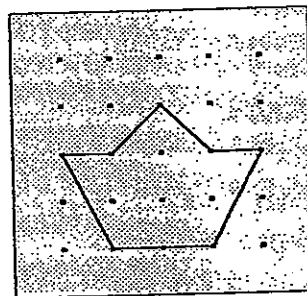


Which of the following is the shape used in the tessellation above?

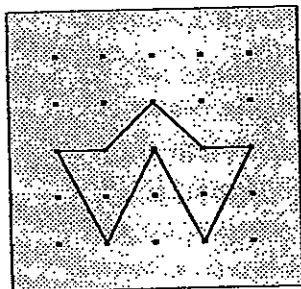
(1)



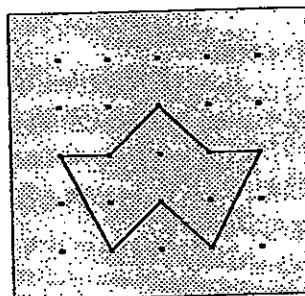
(2)



(3)



(4)



**Section B**

Questions 16 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.

(Total: 40 marks)

16. Fill in the blank with the correct number in the number pattern below.

550 , 525 , 500 , \_\_\_\_\_ , 450

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

17. Write down all the common factors of 28 and 36.

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

18.  $5201 \div 7 =$  \_\_\_\_\_

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

19. Ali, Ravi and Clare baked a total of 18 trays of cupcakes for a fund raising event. Each tray contained 1 dozen of cupcakes. Ali baked 2 cupcakes more than Ravi but 5 cupcakes fewer than Clare. How many cupcakes did Ravi bake?

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

20. Write  $\frac{15}{7}$  as a mixed number in its simplest form.

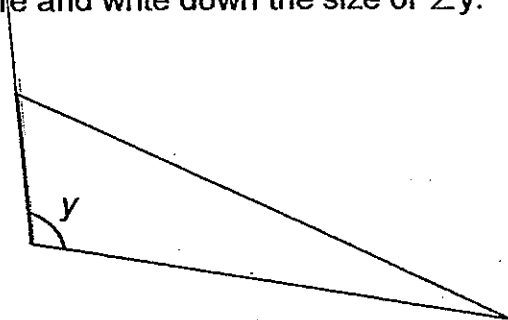
Answer: \_\_\_\_\_

21. Arrange the following fractions from the smallest to the greatest.

$$\frac{3}{4}, \frac{3}{8}, \frac{7}{8}$$

Answer: \_\_\_\_\_  
(smallest) (greatest)

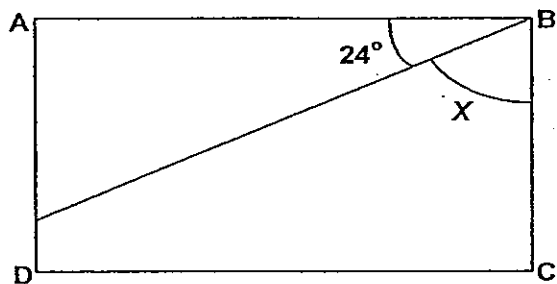
22. Measure and write down the size of  $\angle y$ .



Answer: \_\_\_\_\_°

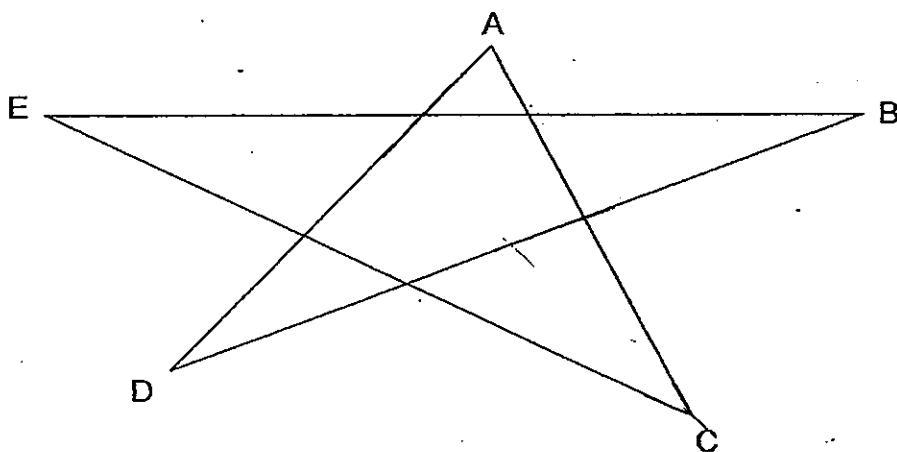


23. In the figure, ABCD is a rectangle. Find the value of  $\angle x$ .



Answer : \_\_\_\_\_°

24. Draw a line perpendicular to the line AD through the point C in the figure below.

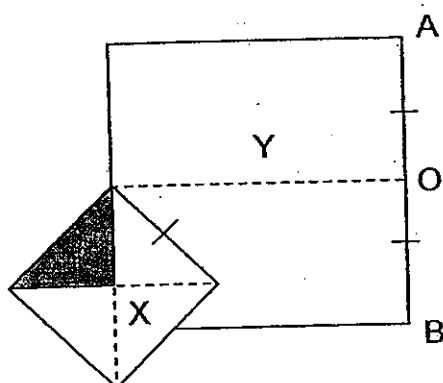


25. The figure below is made up of 3 identical rectangles. If the area of the whole figure is  $81 \text{ cm}^2$ , find the breadth of each rectangle.



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

26. The figure below is made up of two squares X and Y. The length of square X is equal to  $AO$ , and  $AO=OB$ . If the area of the shaded region is  $9 \text{ cm}^2$ , find the length of square Y.

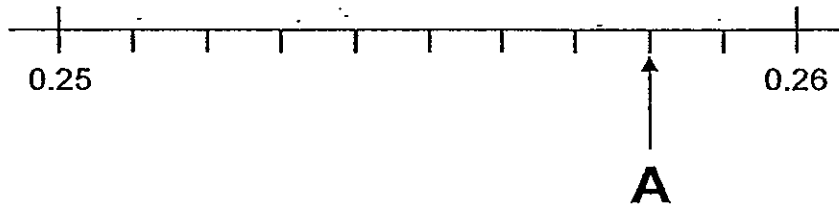


Answer : \_\_\_\_\_ cm

27. Write 16 thousandths in figures.

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

28. Write the decimal represented by A.



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

29. Round off 28.96 to 1 decimal place.

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

30. Ritah bought a blouse and a dress at the shopping mall. The blouse cost \$19.50 and the dress cost \$3.85 less than the blouse. She paid \$50 to the cashier. How much change did she get ?

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

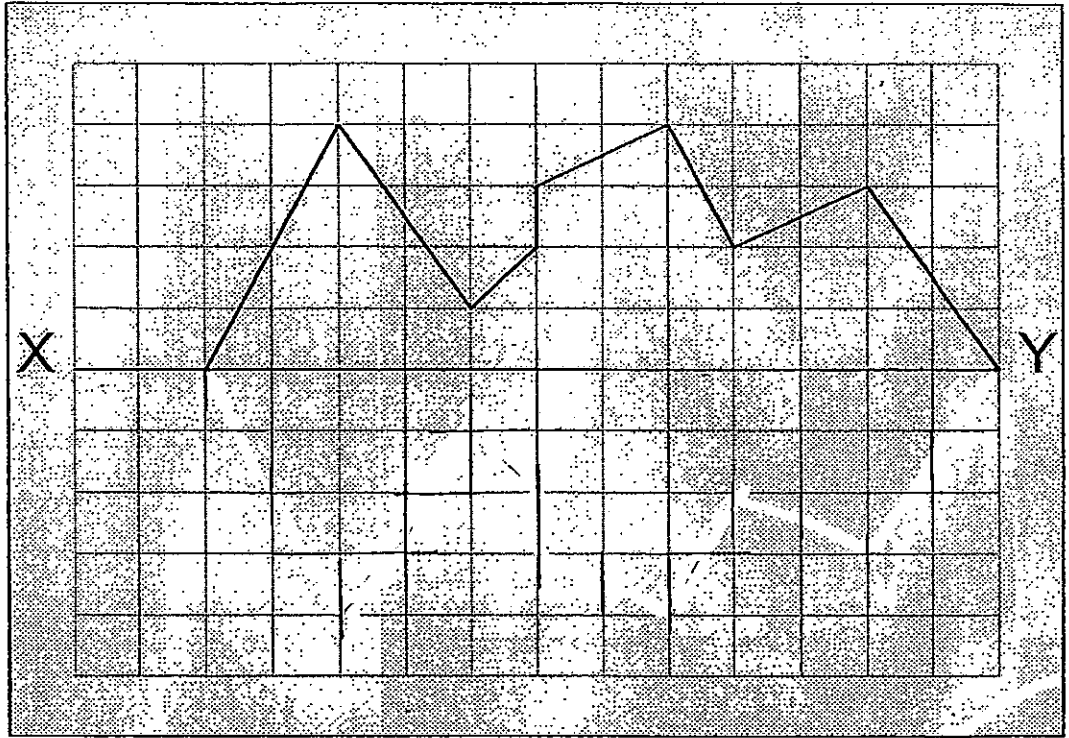
31. Mrs Lee gave \$459 to Karen and \$283 to Jack. Both of them wanted to spend the money equally over 8 days. How much would both of them spend in 1 day?

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

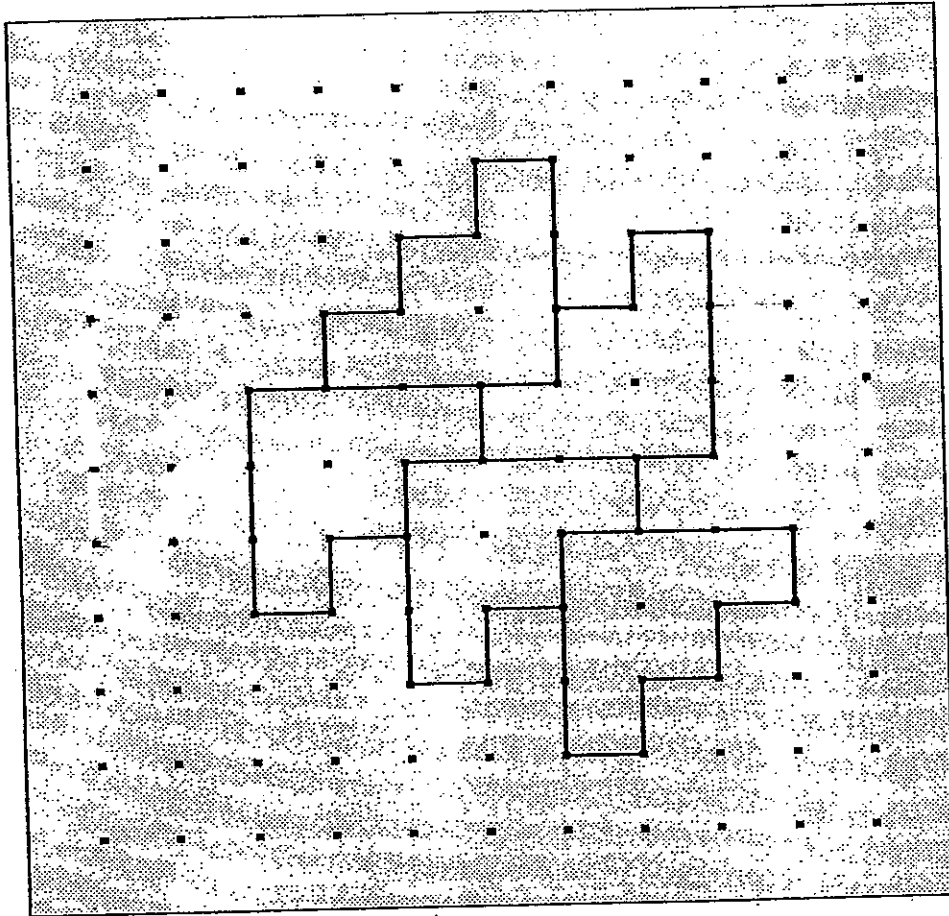
32. Jenna ran 12.79 km, when rounded off to the nearest hundredth. What was the furthest possible distance she ran? (Give your answer in 3 decimal places.)

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

33. Complete the following figure with  $XY$  as the line of symmetry.



34. The pattern in the box below shows part of a tessellation. Extend the tessellation by drawing **two** more unit shapes in the space provided within the box.



35. The table below shows the results of John's final examination. Use the data given to complete the table.

- The total marks for the 3 subjects is 251.
- He scored 15 marks fewer for Chinese Language than English Language.

Subjects	Marks
English Language	
Chinese Language	73
Mathematics	

**Section C**

Questions 36 to 37 carry 3 marks each and questions 38 to 43 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: 30 marks)

36. The total length of 3 identical long ropes and 2 identical short ropes is 198 cm. Each piece of long rope measures thrice as long as a short rope. What is the length of each piece of long rope?

Answer : \_\_\_\_\_ (3 m)

37. An exercise book cost \$0.45. Linus had enough money to buy 4 exercise books. He could buy 9 notebooks with the same amount of money. How much would 15 notebooks cost?

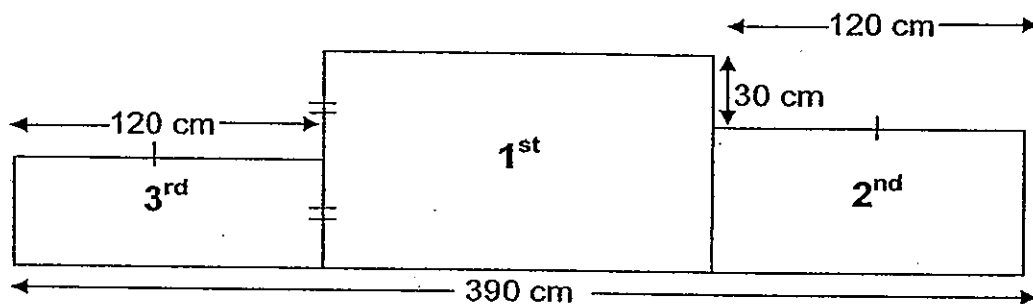
Answer : \_\_\_\_\_ (3 m)

38. There are 300 girls in a school.  $\frac{3}{4}$  of the number of boys in the school is equal to  $\frac{4}{5}$  of the number of girls in the school. How many children are there in the school?

Answer: \_\_\_\_\_ (4 m)



39. During the Youth Olympic Games, Mr. Singh was tasked to build a winner's podium as shown in the figure below. The length of the "2<sup>nd</sup>" and "3<sup>rd</sup>" podium was the same. The organising committee required him to paint the front of the podium purple. If the perimeter of the "1<sup>st</sup>" podium was 480 cm, what was the total area he would need to paint?



Answer : \_\_\_\_\_ (4 m)

40. If Vera gives Bala 2 stickers, he will have the same number of stickers as Vera. If Bala gives Vera 2 stickers, Vera will have 5 times as many stickers as Bala. How many stickers does each of them have?

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

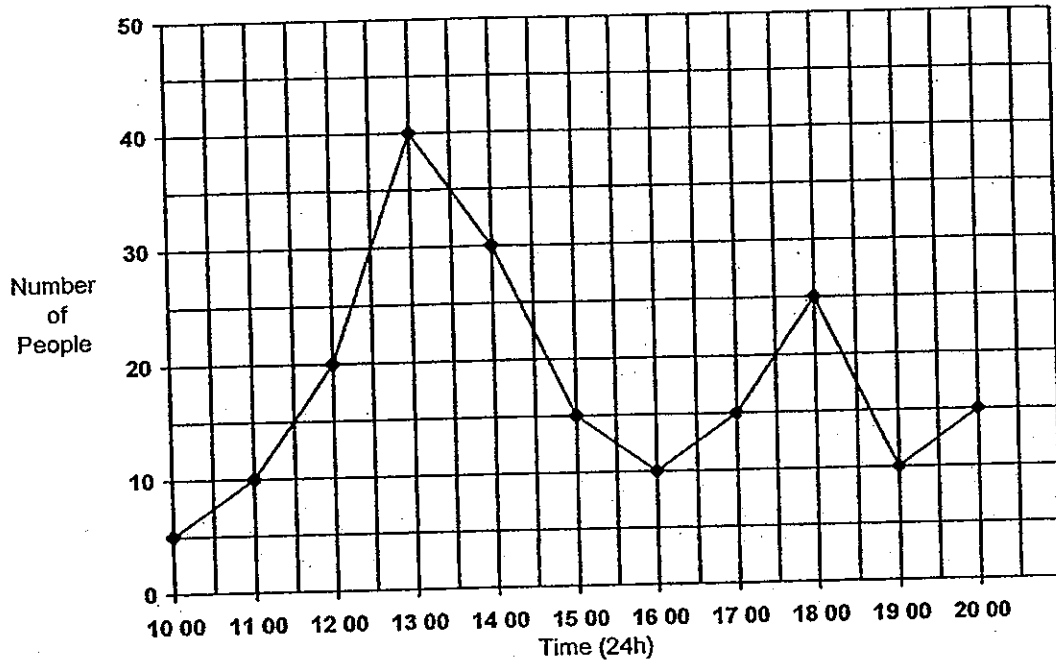
Bala: \_\_\_\_\_

(4m)

41. The time in New York is 12 hours behind that of Singapore. Mr Tan took a 18 hour flight from New York to Singapore. He departed from New York at 22 35 on Wednesday. What was the day and time in Singapore when he arrived?

Answer : \_\_\_\_\_ (4 m)

42. The line graph below shows the number of people in a store at various times of a day. Study it carefully and answer the following questions.



- What was the busiest time of the day at the store?
- How many people were in the store at 18 00?
- During which one-hour period was the increase in the number of people the greatest?
- What was the increase in part (c)?

Answer : a) \_\_\_\_\_ (1 m)

b) \_\_\_\_\_ (1 m)

c) \_\_\_\_\_ to \_\_\_\_\_ (1 m)

d) \_\_\_\_\_ (1 m)

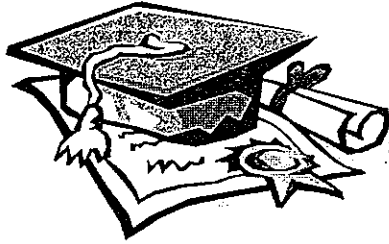
43. I went to the zoo with my parents last Saturday. We saw a total of 30 chickens and horses. If the total number of legs was 80, how many horses were there?

Answer: \_\_\_\_\_ (4 m)

**END OF PAPER**

Setters: Mr Jyoji Numayama  
Mr Jonathan Goh  
Miss Eng Li Li



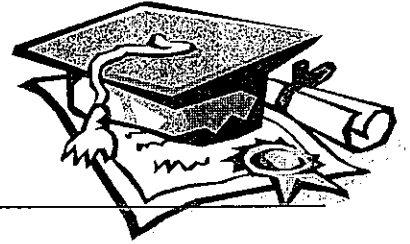


# ANSWER SHEET

**EXAM PAPER 2010**

**SCHOOL : NANYANGPRIMARY  
SUBJECT : PRIMARY 4 MATHEMATICS**

**TERM : SA2**



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

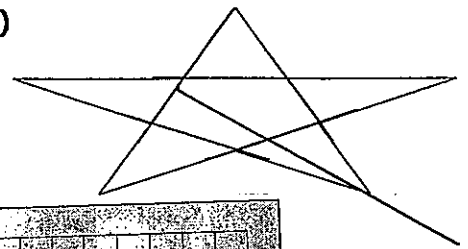
16)475                      17)1,2 and 4                      18)743                      19)69                      20)2 $\frac{1}{7}$

21)3/8,  $\frac{3}{4}$ , 7/8                      22)104°                      23)66°                      24)

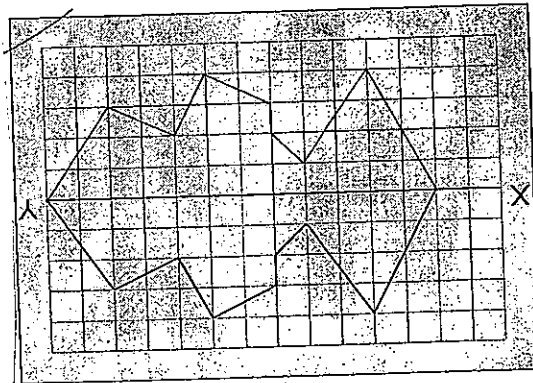
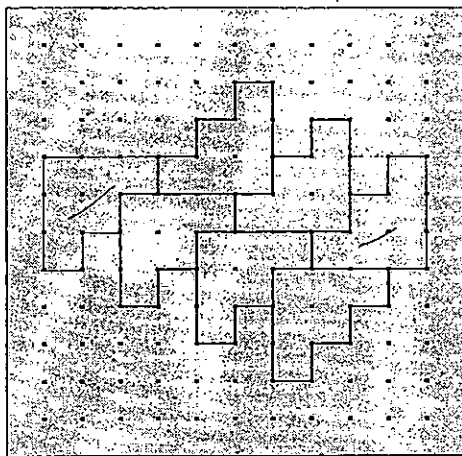
25)3cm                      26)12cm                      27)0.016

28)0.258                      29)29.0                      30)\$14.85

31)\$92.75                      32)12.794km                      33)



34)



35)English = 88  
Mathematics= 90

36) 1 unit  $\rightarrow 198\text{cm} \div 11 = 18\text{cm}$   
 Short rope  $\rightarrow 18\text{cm}$   
 Long rope  $\rightarrow 18\text{cm} \times 3 = 54\text{cm}$

Check

$54\text{cm} \times 3 = 162\text{cm}$   
 $18\text{cm} \times 2 = 36\text{cm}$   
 $162\text{cm} + 36\text{cm} = 198\text{cm}$

Ans: 54cm

37)  $\$0.45 \times 4 = \$1.80$   
 1 notebook  $\rightarrow \$1.80 \div 9 = \$0.20$   
 15 notebook  $\rightarrow \$0.20 \times 15 = \$3$

38) 1 unit  $\rightarrow 300 \div 5 = 60$   
 4 units  $\rightarrow 60 \times 4 = 240$   
 1 unit  $\rightarrow 240 \div 3 = 80$   
 4 units  $\rightarrow 80 \times 4 = 320$   
 $300 + 320 = 620$

39)  $120\text{cm} + 120\text{cm} = 240\text{cm}$   
 $390\text{cm} - 240\text{cm} = 150\text{cm}$   
 $150\text{cm} \times 2 = 300\text{cm}$   
 $480\text{cm} - 300\text{cm} = 180\text{cm}$   
 $180\text{cm} \div 2 = 90\text{cm}$   
 $90\text{cm} \div 2 = 45\text{cm}$   
 $90\text{cm} - 30\text{cm} = 60\text{cm}$   
 1<sup>st</sup>  $\rightarrow 150\text{cm} \times 9\text{cm} = 13500\text{cm}^2$   
 2<sup>nd</sup>  $\rightarrow 60\text{cm} \times 120\text{cm} = 7200\text{cm}^2$   
 3<sup>rd</sup>  $\rightarrow 45\text{cm} \times 120\text{cm} = 5400\text{cm}^2$   
 $5400\text{cm}^2 + 7200\text{cm}^2 = 12600\text{cm}^2$   
 $12600\text{cm}^2 + 13500\text{cm}^2 = 26100\text{cm}^2$

40) 2 stickers  $\rightarrow$  1 unit  
 Vera  $\rightarrow 2 \times 4 = 8$   
 Bala  $\rightarrow 4$

41) 04 35

42) a) 13 00    b) 25    c) 12 00 to 13 00    d) 20 minutes

43) HL	CL	TL	A(H)	A(C)	TA	C
40	40	80	10	20	30	√

Ans : 10