

NANYANG PRIMARY SCHOOL

SECOND SEMESTRAL EXAMINATION
2007

PRIMARY 4
MATHEMATICS

DURATION: 1 HOUR 45 MINUTES

Section A	/ 40
Section B	/ 40
Section C	/ 20

Total: / 100

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 ✗

(2) 291 ✗

(3) 560 ✓

(4) 666 ✗

538

5. Which of the following is the best estimate of 894×23 ? $(90) \times (20) = 18000$
- (1) 890×20 (2) 890×30
 (3) 900×20 (4) 900×30
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.
(40min)
- (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

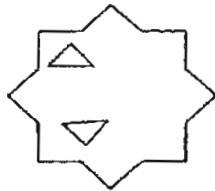
11. A cupboard costs \$159.20. A school wants to buy 76 cupboards. What is the best estimate of the total cost?

- (1) 159×76 (2) 159×80
(3) 160×76 (4) 160×80

12. Which of the following is a symmetrical figure?



A



B



C



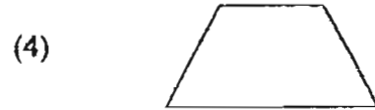
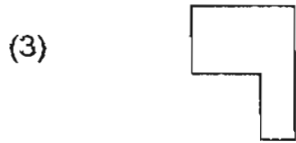
D

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

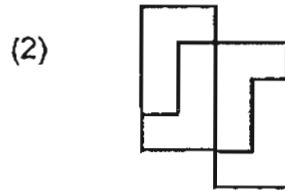
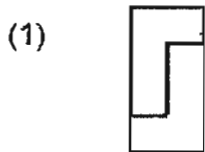
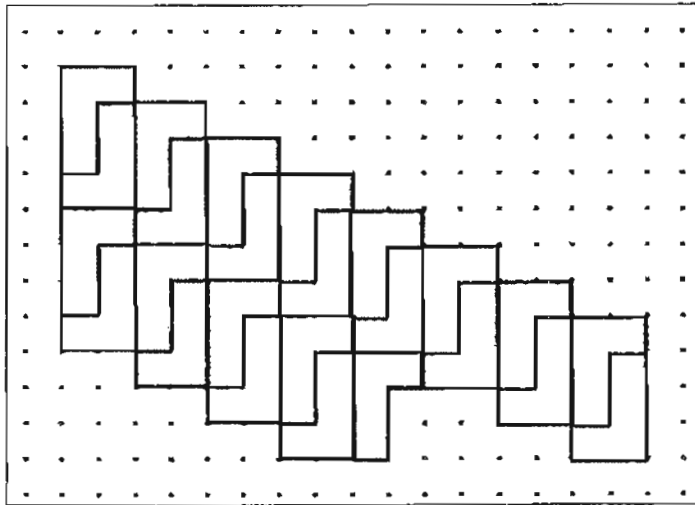
13. A square has a perimeter of 52 cm. Find its area.

- (1) 13 cm^2 (2) 104 cm^2
(3) 169 cm^2 (4) 208 cm^2

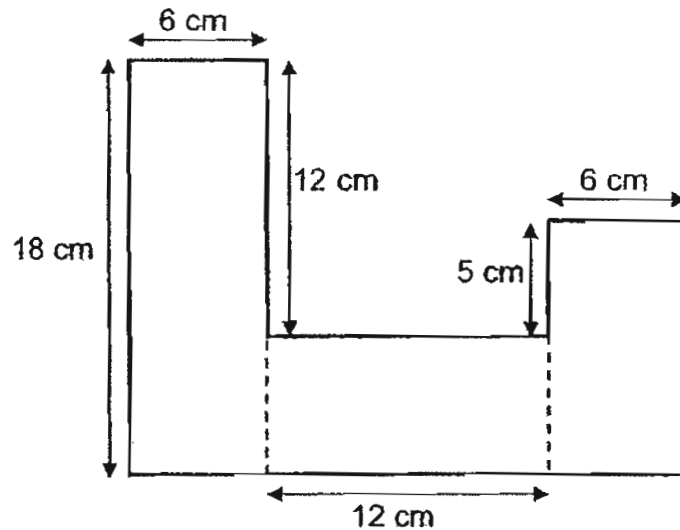
14. Which of the following shapes cannot be tessellated?



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



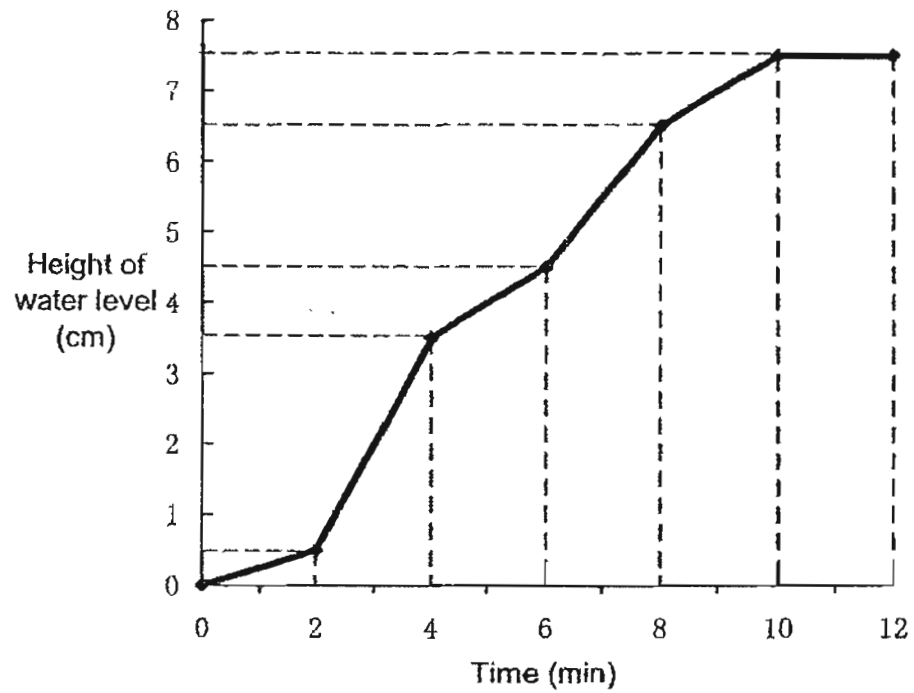
16. The figure below is made up of 3 rectangles. Find the area of the figure.



- (1) 174 cm^2 (2) 180 cm^2
(3) 246 cm^2 (4) 258 cm^2
17. Daniel bought 33 booklets of coupons. There were 200 one-dollar coupons in each booklet. He packed the total amount collected equally into 5 envelopes. What was the total amount of money in one envelope? Round off the answer to the nearest \$100.
- (1) \$1000 (2) \$1300
(3) \$1320 (4) \$1400
18. A food stall owner had 29.2 kg of rice. He used 2.8 kg of rice daily for fried rice from Monday to Thursday. The rest of the rice was used for baked rice on Friday and Saturday. How many kilogrammes of rice was used on Friday if equal amount of baked rice was prepared on Friday and Saturday?

- (1) 9 (2) 10
(3) 13 (4) 14

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 nd to 4 th | (2) 4 th to 6 th |
| (3) 6 th to 8 th | (4) 8 th to 10 th |

20. The table below shows the number of bowls of prawn noodle and mee siam sold in the canteen in a week.

Day	Number of bowls	
	prawn noodle \$1	mee siam \$1
Monday	25	48
Tuesday	75	22
Wednesday	30	30
Thursday	40	100
Friday	30	?

A bowl of prawn noodle and a bowl of mee siam cost \$1.00 each. The total amount of money collected from the sales of both prawn noodle and mee siam last week was \$600. How many bowls of mee siam were sold on Friday?

- (1) 500 (2) 400
(3) 300 (4) 200

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: _____

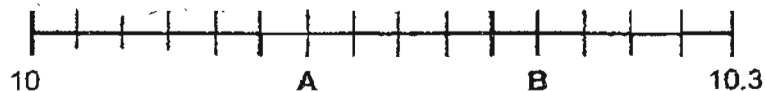
23. $7.618 = 7 + 0.6 +$ _____ thousandths.

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)

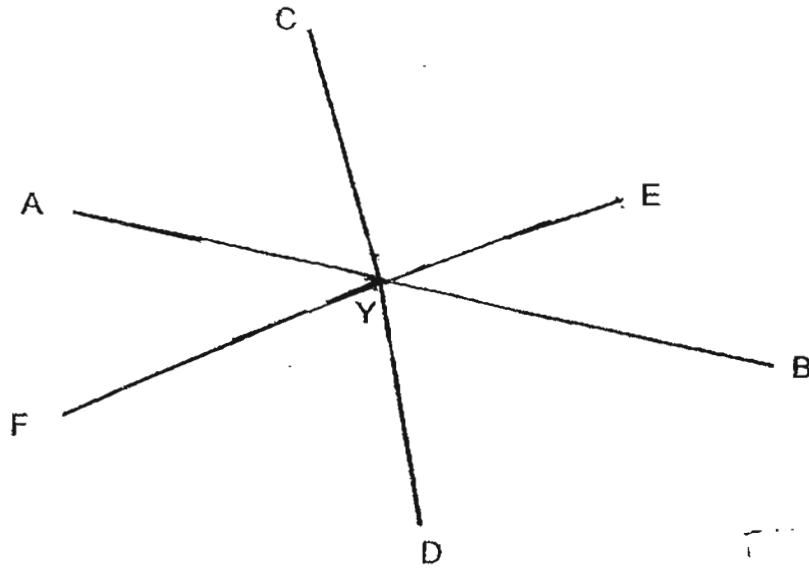
Answer : _____

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

546

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 : _____ m²

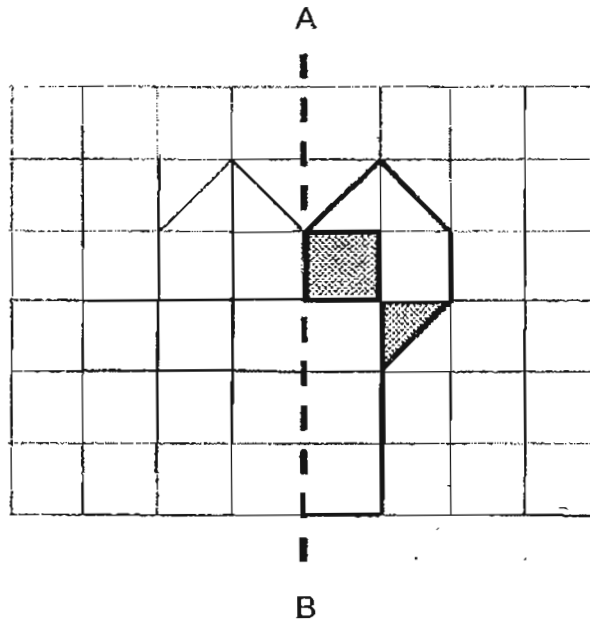
35. 100 g of ham cost \$2.05 and 100 g of sausages cost \$3.82. Xiaoming bought 400 g of ham and 1 kg of sausages. Round off the total cost to the nearest dollar.

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: _____

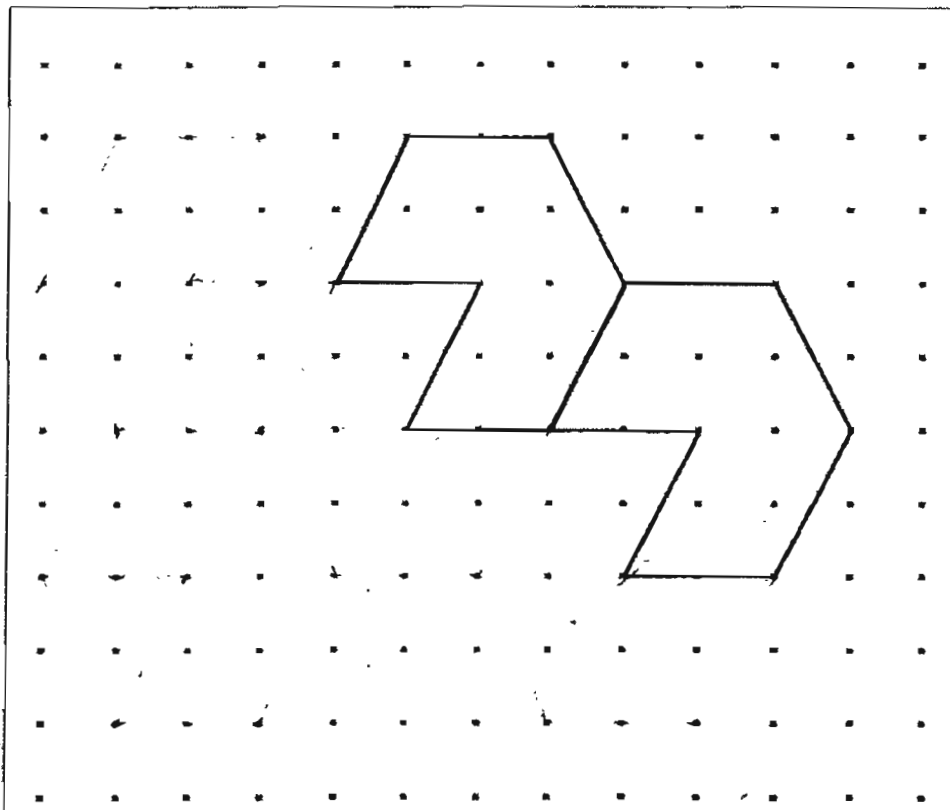
39. The table below shows the price list at a photocopy shop.

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

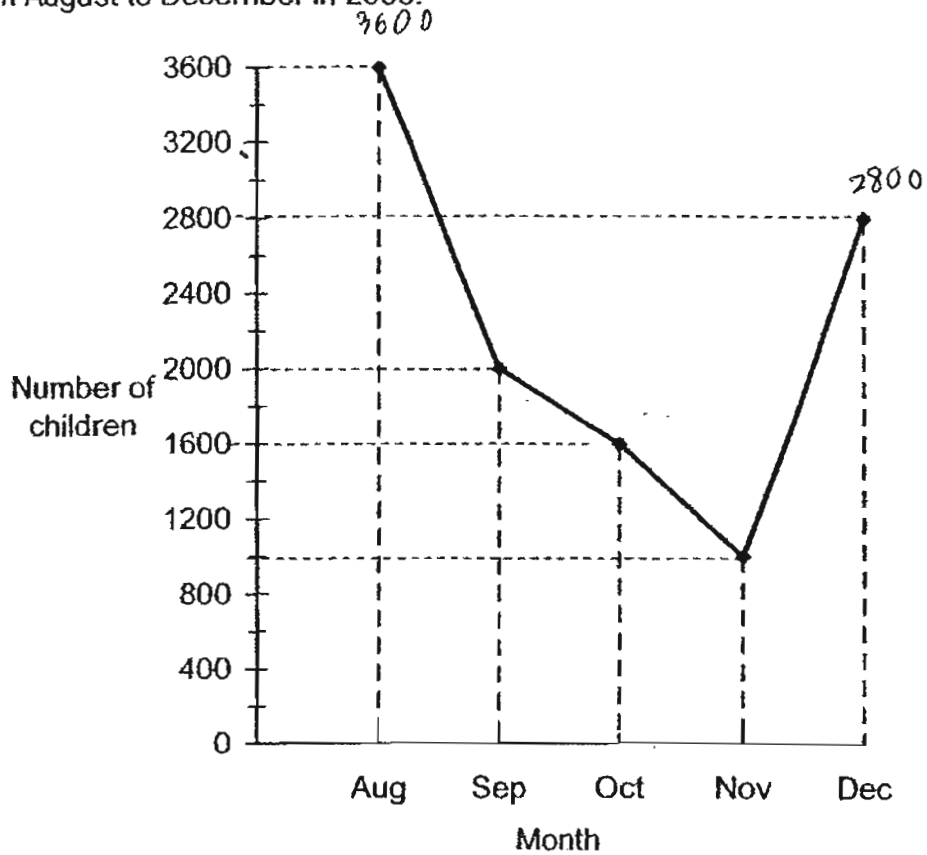
Questions 41 to 45 carry 4 marks each. Do these word problems carefully. Show your working clearly in the space provided for each question and write your answers in the spaces provided.

(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 : _____

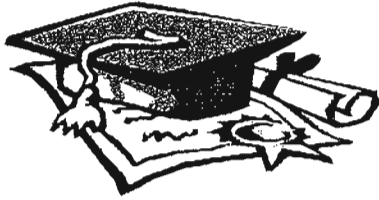
45. Mr Lim ordered 7000 highlighters from a bookshop. He ordered ~~200~~ more pink highlighters than blue highlighters. He ordered twice as many green highlighters as pink highlighters.
- (a) How many ~~blue~~ highlighters did he order?
(b) How many ~~green~~ highlighters did he order?

Answer : (a) _____

(b) _____

END OF PAPER

Setters: Mdm Chou Shin Chieh
Ms Mavis Tan



ANSWER SHEET

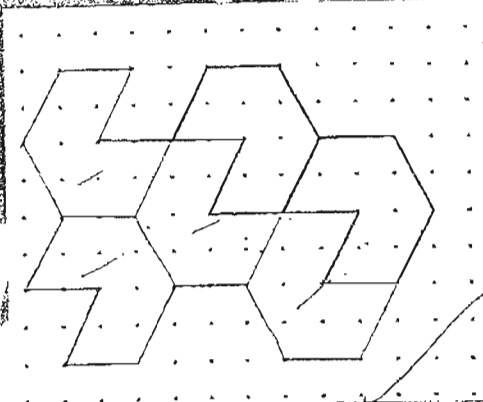
NANYANG PRIMARY SCHOOL - PRIMARY 4 MATHEMATICS 2007
SEMESTRAL ASSESSMENT (2)

1. 2
2. 3
3. 2
4. 3
5. 1
6. 2
7. 1
8. 4
- 9.
- 10.
11. 1
12. 3
13. 3
14. 2
15. 1
- 16.
- 17.
18. 1
19. 1
20. 4
21. $5\frac{1}{2}$
22. $3\frac{3}{4}$
23. 18
24. 46.675
25. A: 10.1 B: 10.22
26. 3.6m
27. 5306
28. 0850
29. 140 min
30. $\angle AYE$ and $\angle EYE$

- 31) 1, 3, 7, 21
- 32) \$525
- 33) $\frac{1}{2}$
- 34) 1200m²
- 35) \$46
- 36) 0.25l
- 37)



- 38) 15
- 39) \$22
- 40)



- 41) 135
- 42) a) September and October
- 43) a) 10.50
b) \$16.50
- 44) 44, 35, 53, 55, 54, 45
- 45) a) 1600
b) 4000