NAN HUA PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 1 – 2008
PRIMARY 5

MATHEMATICS

Paper 1

Section A: 15 Multiple Choice Questions (20 marks)

Section B: 10 Questions (20 marks)

Total Time for Paper 1: 50 minutes

Total Time for Paper 2: 1 hour 40 minutes

INSTRUCTION TO CANDIDATES

1. Write your name and index number in the space provided.
2. Do not turn over the page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Shade your answers in the Optical Answer Sheet (OAS) provided for Questions 1-15.
6. You are not allowed to use calculator for Paper 1.

Marks Obtained

Paper 1		/ 40
Paper 2		/ 60
Total		/ 100

Name : _____ ( )

Class : _____

Date : 6 May 2008 Parent's Signature : _____

Section A (20 marks)

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) and shade on the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

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1. Round off 109 623 to the nearest thousand.

   (1) 109 000
   (2) 109 600
   (3) 110 000
   (4) 110 623

2. Find the value of $54 + 8 \times (12 - 8)$

   (1) 86
   (2) 142
   (3) 248
   (4) 736

3. How many sixths are there in $2\frac{1}{2}$?

   (1) 0
   (2) 5
   (3) 15
   (4) 21

4. Mr Ong has a garden which measures 25m by 9 m.
   How much must he pay if it costs $13 to turf 1 square metre of the garden?

   (1) $225
   (2) $325
   (3) $2 925
   (4) $32 500

5. A man worked $\frac{2}{3}$ of a day working on a project.

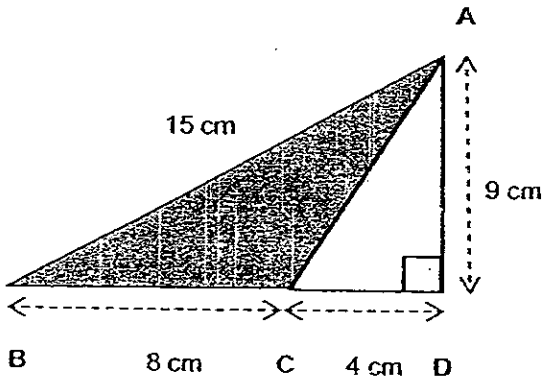
How many hours did he spend working on the project?

(1) 8 hours
(2) 16 hours
(3) 36 hours
(4) 40 hours

6. The ratio of the price of a pencil to that of a pen is 1:3. The pen costs $1.05. A teacher buys 8 pencils and 5 pens. How much does she have to pay for the stationery?

(1) $8.05
(2) $10.15
(3) $13.65
(4) $24.15

7. In the figure below (not drawn to scale), find the area of the triangle ABC.



(1) 14 cm²
(2) 28 cm²
(3) 36 cm²
(4) 56 cm²

8. Charlotte and Deanne share some sweets in the ratio of 7: 4 respectively. If Charlotte has 24 more sweets than Deanne, how many sweets does Charlotte have?

(1) 8
(2) 32
(3) 56
(4) 88

9. Belle uses $\frac{1}{6}$ of her money to buy a purse and $\frac{3}{4}$ of it to buy a dress. If she has $100 left, how much money does she have at first?

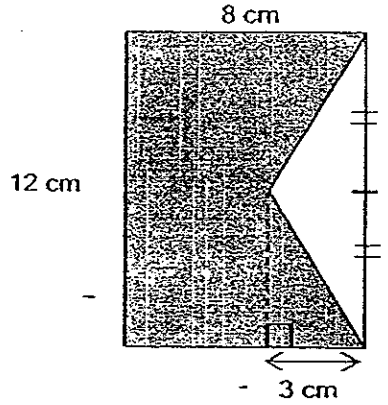
(1) $ 120
(2) $ 480
(3) $ 960
(4) $ 1 200

10. Look at the food label shown below.
What is the ratio of the mass of the fibre to the mass of the protein?

NUTRITION FACT Serving size 1 cup Calories 250		
	Fat	12 g
	Fibre	3 g
	Protein	15 g
	Carbohydrates	24 g

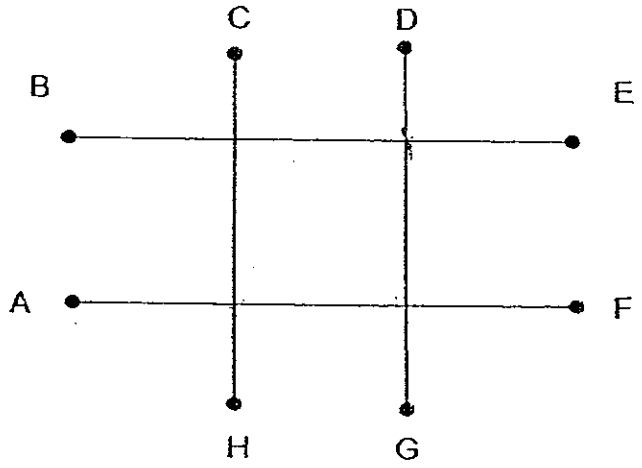
(1) 1 : 2
(2) 1 : 4
(3) 1 : 5
(4) 1 : 8

11. Find the area of the shaded figure.



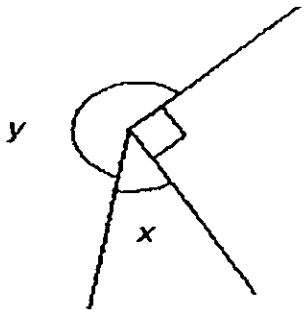
(1) 18 cm²
(2) 78 cm²
(3) 84 cm²
(4) 96 cm²

12. Eugene starts walking from A to a cross junction where he turn 45°anti-clockwise. He then walks to another cross junction where he turns 135°clockwise. He continues to walk until he comes to an end point. Where is Eugene now? found in a straight line



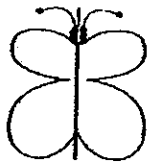
(1) B
(2) E
(3) G
(4) H

13. In the figure below (not drawn to scale), the ratio of $\angle x$ to $\angle y$ is 1: 5. What is the value of $\angle x$.



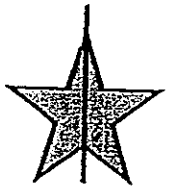
(1) 35°
(2) 45°
(3) 54°
(4) 60°

14. Which of the following is not a symmetric figure?



(1)

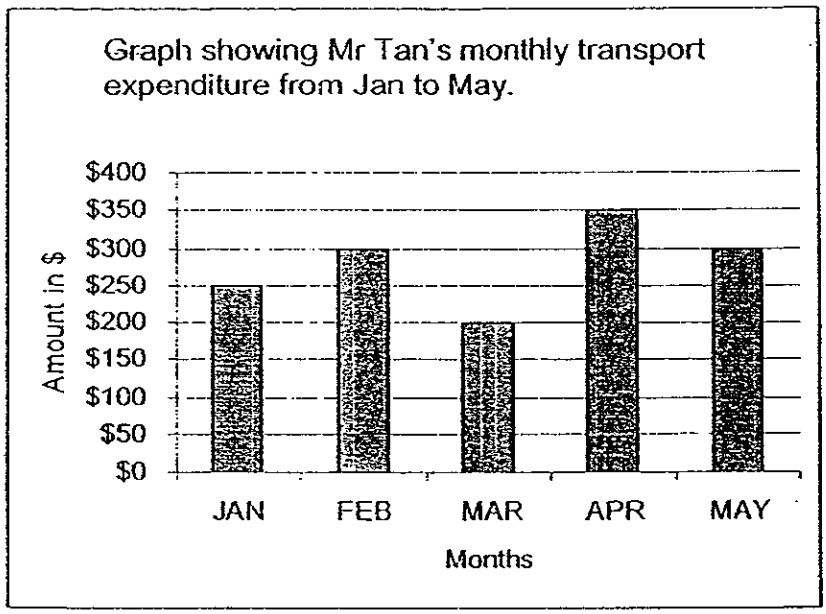
(2)



(3)

(4)

Answer question 15 based on the graph shown below.



15. What is Mr. Tan's total transport expenditure for the 5 months?

(1) $ 250
(2) $ 300
(3) $ 1100
(4) $ 1400

Section B (20 marks)

Questions 16 to 25 carry 1 mark each. Questions 26 to 30 carry 2 marks each. For each question from 26 to 30, show your workings clearly in the space below it and write your answer in the space provided. Give your answers in the units stated.

16. Write 9 000 000 in words.

_____

_____

17. Arrange the following fractions in order. Begin with the smallest.

$$\frac{1}{3} \quad , \quad \frac{1}{6} \quad , \quad \frac{1}{4} \quad , \quad \frac{1}{2}$$

Ans: _____

18. $\frac{56}{72} = \frac{7}{\square}$. What is the missing number in the box?

Ans: _____

19 $599 \times 8 = 600 \times 8 - \square \times 8$.

What is the missing number in the box?

Ans : _____

20. What is the remainder when 5512 is divided by 7?

Ans: _____

21. What fraction of 3 km is 700 m? Give your answer in the simplest form.

Ans: _____

22. A square cardboard has a perimeter of 160 cm. What is its area?

Ans : _____ cm^2

23. Use the following digits to form the smallest possible 4-digit **odd** number.

0	1	2	3

Ans: _____

24. Study the following pattern.

$$\frac{1}{2\times 3}=\frac{1}{2}-\frac{1}{3}$$
$$\frac{1}{3\times 4}=\frac{1}{3}-\frac{1}{4}$$
$$\frac{1}{4\times 5}=\frac{1}{4}-\frac{1}{5}$$

Now find the value of

$$\frac{1}{2\times 3}+\frac{1}{3\times 4}+\frac{1}{4\times 5}+\ldots+\frac{1}{9\times 10}$$

Give your answer in the simplest form.

Ans: _____

25. Doris completed her English homework at 1.40 p.m. She took 45 minutes to do her work. What time did she start?

Ans : _____

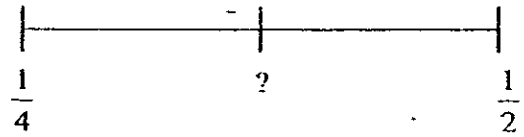
26. What is the value of 1 + 2 + 3 + ... + 100?

Ans: _____

27. 10 men can paint a house in 2 days. How many men are required to paint 2 houses in a day?

Ans:_____

28. What is the value exactly midway between $\frac{1}{4}$ and $\frac{1}{2}$?

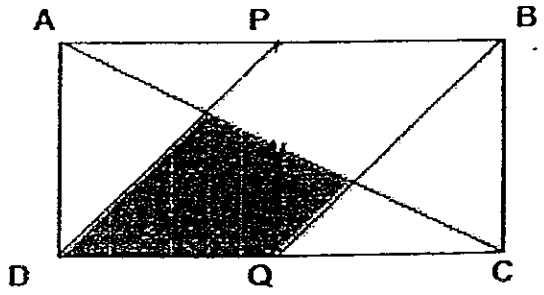


Ans : _____

29. Express $\frac{16}{5}$ km in metres.

Ans : _____ m

30. The diagram shows a rectangle ABCD. P and Q are the mid points of AB and CD respectively. What fraction of the rectangle is shaded?



Ans : _____

End-of-Paper 1

NAN HUA PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 1 – 2008
PRIMARY 5

MATHEMATICS

Paper 2

Total Time for Paper 2: 1 hour 40 minutes

INSTRUCTION TO CANDIDATES

1. Write your name and index number in the space provided.
2. Do not turn over the page until you are told to do so.
3. Follow all instructions carefully
4. Answer all questions and show your workings clearly.
5. You are allowed to use a calculator.

Marks Obtained

Total		/ 60

Name : _____(
)

Class : _____

Date : 6 May 2008 Parent's Signature :_____

Paper 2 (60 marks)

Questions 1 to 5 carry 2 marks each. Show your workings clearly in the space below it and write your answer in the space provided. Give your answers in the units stated.

1. A packet of 16 Ferrero Rocher chocolates (A) costs $4.90 and a packet of 24 Ferrero Rocher chocolates (B) costs $7.50. Which is the cheaper buy, A or B?

Ans :_____

2. $\frac{2}{5}$ of the pupils in a school are girls. If $\frac{3}{5}$ of the girls wear spectacles, what fraction of the girls in school wear spectacles?

Ans:_____

3. Mr. Tan spent $\frac{3}{8}$ of his money and had $480 left. How much money did he have at first?

Ans : $_____

4. Jane is $\frac{1}{4}$ of her mother's age. The product of their ages is 400 years. How old is Jane?

Ans: _____yrs old

5. $\frac{3}{4}$ of a tank is filled when 96 litres of water are poured into it. How many litres will the tank hold when it is full?

Ans: _____ ℓ

For each question from 6 to 18, **show your workings** clearly in the space below it and write your answer in the space provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. Remember to include the units wherever possible.

6. Jolin read $\frac{1}{5}$ of the book in the morning and $\frac{1}{4}$ of the remainder in the afternoon. What fraction of the book was left unread?

Ans: _____ [3]

7. There are 30 bicycles and tricycles. If there are 75 wheels, how many tricycles are there?

Ans: _____ [3]

8. If the shortest side of a triangle is 60 cm, what is the perimeter of the triangle if the ratio of the 3 sides is 4 : 1 : 5 ?

Ans: _____[3]

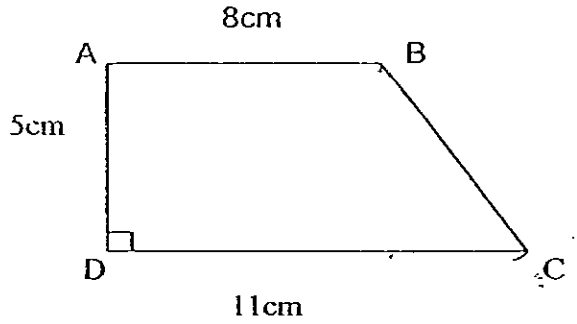
9. Tap A can fill a tub completely in 3 minutes.
Tap B can fill the same tub completely in 2 minutes.
If both taps are turned on at the same time, how long will it take to fill the whole tub completely?

Ans: _____[3]

10. A pair of shoes costs 6 times as much as a pair of socks. If 3 pairs of shoes and 8 pairs of socks cost $312, how much does a pair of socks cost?

Ans: _____ [3]

11. ABCD is a trapezium. What is its area?



Ans:_____[3]

12. In a party, all the people present shake hands with one another. What are the values of a, b and c?

No. of people	2	3	4	5	6	7	15
Total no. of handshakes	1	3	6	10	(a)	(b)	(c)

Ans: (a) _____[1]

(b)_____[1]

(c)_____[2]

13. The ratio of June's stickers to that of Tom's is 3:4 and the ratio of Tom's stickers to that of Sue's is 3:5.
(a) What is the ratio of June's stickers to that of Tom's to that of Sue's?
(b) If Sue has 60 stickers, how many stickers does June have?

Ans: (a)_____[2]

(b)_____[2]

14. Jim had $\frac{4}{9}$ of what Andrew had.
Grace had $320 less than Andrew.
If Grace had $\frac{1}{5}$ more than Jim, how much did Andrew have?

Ans:_____[4]

15. John and Tim have some money. If Tim gives John $5, they will have the same amount of money. If John gives Tim $5, Tim will have twice as much money as John.

(a) How much money does John have?

(b) How much money does Tim have?

Ans: (a)_____ [3]

(b)_____ [2]

16. $\frac{3}{8}$ of the buttons in a box were green.
There were 20 more blue buttons than green ones.
The remaining 84 buttons were pink.
How many blue buttons were there in the box?

Ans:_____[5]

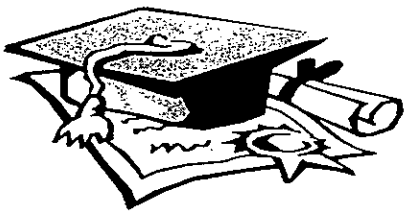
17. In a nuts cocktail, the ratio of walnuts, pistachios and cashew nuts by mass was 3 : 5 : 6. After adding 150 g of walnuts and pistachios, the ratio became 2 : 3 : 3 What was the total mass of cashew nuts and walnuts at first?

Ans: _____ [5]

18. Sandy has thrice as many blouses as skirts. After giving away 55 blouses and 13 skirts, she had thrice as many skirts as blouses left. How many blouses did she have at first?

Ans:_____ [5]

End-of-Paper



ANSWER SHEET

EXAM PAPER 2008

SCHOOL : NAN HUA PRIMARY SCHOOL
SUBJECT : PRIMARY 5 MATHEMATICS

TERM : SA 1

Paper 1

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

16)nine million **17)$\frac{1}{6}$, $\frac{1}{4}$, $\frac{1}{3}$, $\frac{1}{2}$** **18)9** **19)1** **20)3**

21)7/30 **22)1600cm_2** **23)1023** **24)$\frac{2}{5}$**

25)12.55p.m. **26)5050** **27)40** **28)$\frac{3}{8}$**

29)3200m **30) ¼**

Paper 2

1)A **2)6/25** **3)$768** **4)10 yrs old** **5)128L**

6)$\frac{3}{5}$ **7)15**

8)1 unit-->60
4+1+5=10
10 units→60x10=600
The perimeter of the triangle is 600m.

9)A:1 min→ 1/3
B:1 min→ ½
A+B: 1 min→$\frac{1}{3} + \frac{1}{2} = \frac{2}{6} + \frac{3}{6} = \frac{5}{6}$
5u→1 min
6u→$\frac{1}{5} \times 6 = \frac{6}{5}$
$=1\frac{1}{5}$ min

10)6 units x 3=18
1 unit x8=8
18+8=26 units
26 units→$312
1 unit→$312÷26=$12
A pair of socks cost $12

11)8x5=40cm^2
11-8=3
½ x5x3=1x2.5x3=7.5cm^2
40+7.5=47.5cm^2
The area of the trapezium is 47.5cm^2

12)a)15 b)21 c)105

13)a)9:12:20 b)27

14)$685.71

15)a)$25 b)$35

16)176 buttons

17)675g

18)57 blouses