

NANYANG PRIMARY SCHOOL  
FIRST SEMESTRAL EXAMINATION  
2012

PRIMARY 5  
MATHEMATICS  
PAPER 1

DURATION: 50 MINUTES

Booklet A	/ 20
Booklet B	/ 20

Paper 1 Total: / 40
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Name: \_\_\_\_\_ (       )

Class: Primary 5 (       )

Date: 14 May 2012

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

Any query on marks awarded should be raised by 21 May 2012. We seek your understanding in this matter as any delay in the confirmation of marks will lead to delays in the generation of results.

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

FOLLOW ALL INSTRUCTIONS CAREFULLY.

ANSWER ALL QUESTIONS. YOU ARE NOT ALLOWED TO USE A CALCULATOR.

**PAPER 1 (BOOKLET A)**

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

(20-marks)

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1 Which of the following has the same value as  $\frac{4}{25}$ ?

(1) 0.4

(2) 0.16

(3) 0.04

(4) 0.016

2 Find the value of  $\frac{5}{7} - \frac{1}{5}$ .

(1)  $\frac{1}{7}$

(2)  $\frac{4}{7}$

(3)  $\frac{18}{35}$

(4)  $\frac{32}{35}$

3 Find the value of  $3\frac{2}{3} + 1\frac{3}{4}$ .

(1)  $4\frac{5}{12}$

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

(3)  $5\frac{5}{12}$

(4)  $5\frac{1}{2}$

4 Find the value of  $\frac{1}{7} \times \frac{14}{6}$ .

(1)  $\frac{15}{13}$

(2)  $\frac{14}{13}$

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

(4)  $\frac{2}{7}$

5 What is the missing number in the box?

$12.1 \text{ l} = \boxed{\text{?}} \text{ ml}$

(1) 0.0121

(2) 0.121

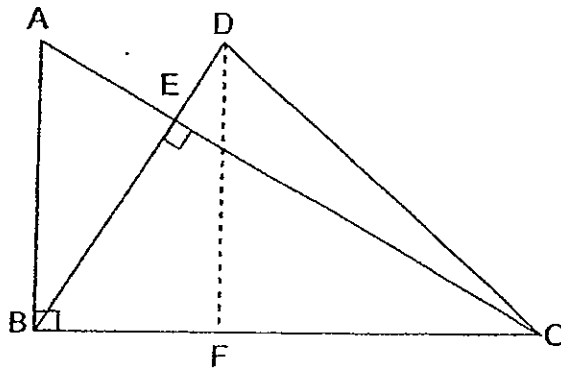
(3) 1210

(4) 12 100

6 What is the best estimate of the value  $4.59 \times 10^1$ ?

- (1) 400
- (2) 450
- (3) 460
- (4) 500

7 In the figure below, what is the height of triangle BDC given that the base is DB?



- (1) DF
- (2) CD
- (3) BC
- (4) CE

8 Find the value of  $6.6 \div 300$ .

(1) 0.022

(2) 0.22

(3) 2.2

(4) 22

9 Find the remainder when the sum of 124 and 116 is divided by 7.

(1) 9

(2) 2

(3) 34

(4) 4

10 Study the pattern below. What is the missing expression?

104, 95, 112, 87, 128, 71, 152, 

?
---

(1) 32

(2) 47

(3) 166

(4) 184

11 Find the missing number in the box.

$$\frac{4}{9} + \frac{\square}{3} = 2\frac{4}{9}$$

(1) 6

(2) 2

(3) 9

(4) 18

12 Muthu had some savings. He donated  $\frac{2}{5}$  of his savings equally among 3 charity organisations. What fraction of his savings did he donate to each organisation?

(1)  $1\frac{4}{15}$

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

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

(4)  $\frac{2}{15}$

13 Kelly went shopping with \$500. She used 0.4 of the amount of money to buy a dress. She then used 0.6 of the remaining amount of money to buy a bag. How much did the bag cost?

(1) \$120

(2) \$180

(3) \$200

(4) \$300

14 At present, Betty is 3 years old and Cathy is 4 times as old as Betty. In how many years' time, will Cathy be twice as old as Betty?

(1) 6

(2) 2

(3) 9

(4) 12

15 A water tank was filled to the brim with water. Some amount of water was leaking from the tank at a constant rate. After 6 days,  $\frac{2}{3}$  of the tank was still filled with water. After 11 more days,  $2\frac{1}{2}$  litres of water was left in the tank. What was the capacity of the tank?

(1)  $27\frac{1}{2}$

(2) 31 l

(3)  $42\frac{1}{2}$

(4) 45 l



Name: \_\_\_\_\_ ( ) Class: Pr 5 ( )

P5 SA1 2012

**PAPER 1 (BOOKLET B)**

Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

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16 Write the following in numerals.

One million, twenty thousand and nineteen

Ans: \_\_\_\_\_

---

17 Estimate the value of  $1924 + 423$  by first rounding off each number to the nearest tens.

Ans: \_\_\_\_\_

---

18 What is the missing number in the box?

$$15 \times 200 = 100 \times \boxed{?}$$

Ans: \_\_\_\_\_

19 Find the value of  $45 + 5 \times (5 + 15) - 50 \div 5$ .

Ans: \_\_\_\_\_

---

20 Find the value of  $\frac{7}{9} \times \frac{27}{42}$ . Leave your answer in its simplest form.

Ans: \_\_\_\_\_

---

21 Find the product of  $\frac{2}{11}$  and  $3\frac{1}{4}$ . Leave your answer in its simplest form.

Ans: \_\_\_\_\_

---

22 Raj bought 3.1 kg of rice and packed it into 10 small packets. What was the mass of each small packet of rice? Leave your answer in grams.

Ans: \_\_\_\_\_ g

---

- 23 Suya had a rectangular garden, measuring 2.25 m by 3 m. What was the area of the garden? Round off your answer to 1 decimal place.

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

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- 24 What is the missing number in the box?

$$8\frac{1}{3} - 2\frac{1}{2} = 5\frac{\square}{6}$$

Ans: \_\_\_\_\_

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- 25 What is the value of  $4.5 \div 10 + 2.12 \times 1000$ ?

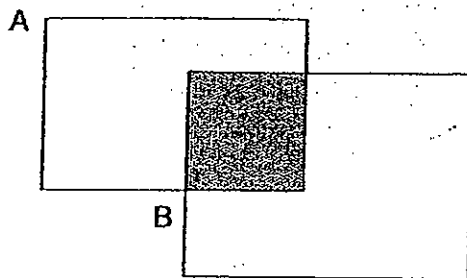
Ans: \_\_\_\_\_

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Questions 26 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

- 26 The figure is made up of Rectangle A and Rectangle B. The area of Rectangle A is  $1248 \text{ cm}^2$  and the area of Rectangle B is  $2620 \text{ cm}^2$ . Given that the overlapped area is  $450 \text{ cm}^2$ , find the area of the figure.



Ans: \_\_\_\_\_  $\text{cm}^2$

- 27 A baker used  $\frac{5}{9}$  of a packet of sugar he had on the first day. The next day, he used  $\frac{1}{4}$  of the remaining packet of sugar. If he had 12.3 kg of sugar left, what was the mass of the packet of sugar at first?

Ans: \_\_\_\_\_ kg

- 28 Kendrick is 6 years old now. Jordan is thrice as old as him. Express Kendrick's age as a fraction of Jordan's age in its simplest form.

Ans: \_\_\_\_\_

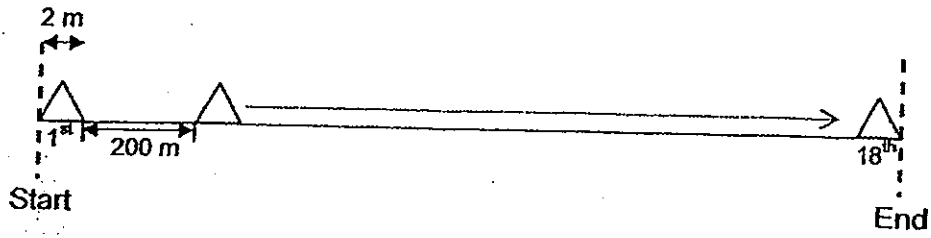
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- 29 I am a number. After multiplying by  $\frac{1}{5}$ , then adding 10.01, my value is 19.01. What number am I?

Ans: \_\_\_\_\_

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- 30 The distance between 2 triangular road barriers along a road is 200 m. What is the total distance from the 1<sup>st</sup> to the 18<sup>th</sup> road barriers?



Ans: \_\_\_\_\_ m

END OF PAPER



NANYANG PRIMARY SCHOOL  
FIRST SEMESTRAL EXAMINATION  
2012

PRIMARY 5  
MATHEMATICS  
PAPER 2

DURATION: 1 HOUR 40 MINUTES

Paper 2 Total	/ 60
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GRAND TOTAL	/ 100
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Name: \_\_\_\_\_ ( )

Class: Primary 5 ( )

Date: 14 May 2012

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

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**PAPER 2**

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

- 
- 1 Fill in the boxes with the operations, +, × and ÷ so that the equation is mathematically correct. Use each operation only once.

$$12 \square (4 \square 6) - 20 \square 5 = 116$$

- 
- 2 The mass of a tank when filled to the brim with water was  $4\frac{7}{12}$  kg. When  $\frac{3}{4}$  of the water in the tank was poured away, the mass became  $1\frac{5}{6}$  kg. What was the mass of the water in the tank? Express your answer as a mixed number.

Ans: \_\_\_\_\_ kg



- 3 The mass of 3 identical bricks is  $\frac{19}{21}$  kg. Ryan used 10 of such bricks.

What was the total mass of bricks used? Round off your answer correct to 2 decimal places.

Ans: \_\_\_\_\_ kg

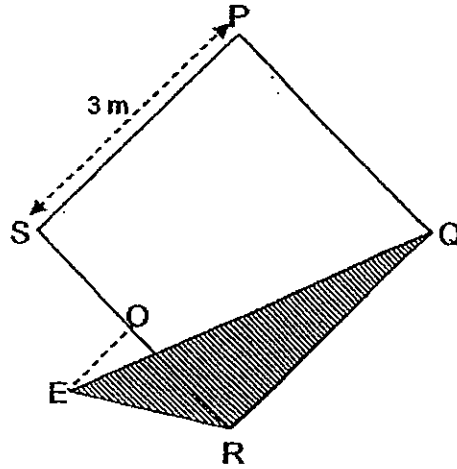
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- 4 The lengths of a rope and a string are 1.5 m and 0.6 m respectively after rounding off to 1 decimal place. What is the smallest possible total length of the rope and string? Leave your answer in centimetres.

Ans: \_\_\_\_\_ cm

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- 5 The figure below shows an overlapping figure made up of Square PQRS and Triangle QER. Square PQRS has sides of 3 m. The line EO is a straight line and  $SO = OR$ . Find the area of triangle EQR.



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

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For questions 6 to 18, show your working clearly in the space provided for each question and write your answers in the spaces provided.

The number of marks available is shown in brackets [ ] at the end of each question or part-question.

(50 marks)

- 
- 6 Liling had more cards than John at first. After John bought another 124 cards and Liling threw away 27 cards, John then had 56 more cards than Liling. How many more cards did Liling have than John at first?

Ans: \_\_\_\_\_ [3]

- 
- 7 Mrs Aminah spent \$498 on a LCD television set and  $\frac{3}{5}$  of her remaining money on a toaster. If she had  $\frac{1}{4}$  of her original amount of money left, how much money did she have at first?

Ans: \_\_\_\_\_ [3]

- 8 There were 45 pupils at the class party.  $\frac{6}{7}$  of the girls was equal to  $\frac{3}{4}$  of the boys. How many boys were there at the party?

Ans: \_\_\_\_\_ [3]

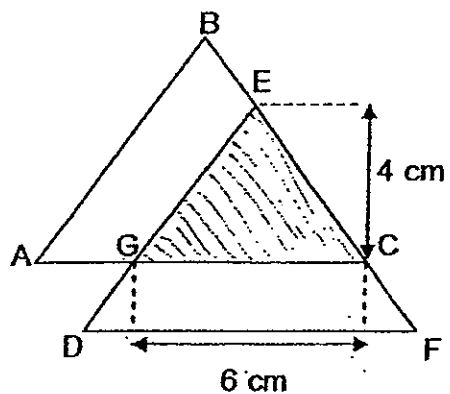
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- 9 Suling arranged her wooden beads to form a square of 14 rows by 14 columns. She then removed 11 beads and rearranged the rest of the beads to form two squares of different sizes. Given that there were 3 more rows in the bigger square than the smaller square, what was the number of rows in the smaller square formed?

\_\_\_\_\_ [3]

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- 10 ABC and DEF are identical triangles which overlapped each other. The area of Triangle EGC is  $\frac{3}{5}$  of the area of Triangle ABC. Find the area of Triangle ABC.



Ans: \_\_\_\_\_ [3]

11 Peter, Queenie and Raven bought a present for their friend, Jimmy. Queenie and Raven paid \$54. Queenie and Peter paid \$48. Peter and Raven paid \$42.

(a) What was the cost of the present?

(b) What fraction of the cost of the present did Queenie pay?

Ans: (a) \_\_\_\_\_ [3]

(b) \_\_\_\_\_ [1]

- 12 At first, there were 234 more apples in Stall A than Stall B. After 78 apples were transferred from Stall B to Stall A and 24 apples were thrown away from Stall A, there were four times as many apples in Stall A as Stall B. How many apples were there in Stall B at first?

Ans: \_\_\_\_\_ [4]

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- 13 Nelson had  $\frac{3}{5}$  as many stamps as Mason. For every 10 stamps Mason had, Ken had 4 stamps. If Nelson had 246 stamps, find the number of stamps that Ken had.

Ans: \_\_\_\_\_ [4]

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- 14 6 pens cost as much as 2 notebooks. 7 pens cost \$4.40 more than 1 notebook. Danny spent \$88 on an equal number of pens and notebooks. How many pens did he buy?

Ans: \_\_\_\_\_ [4]

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- 15 A class library had a total of 340 novels, fiction books and comics. After  $\frac{3}{7}$  of the novels and 25 comics were loaned out, and 30 fiction books were bought, the number of the three types of books were the same. How many comics did the class library have at first?

Ans: \_\_\_\_\_ [4]

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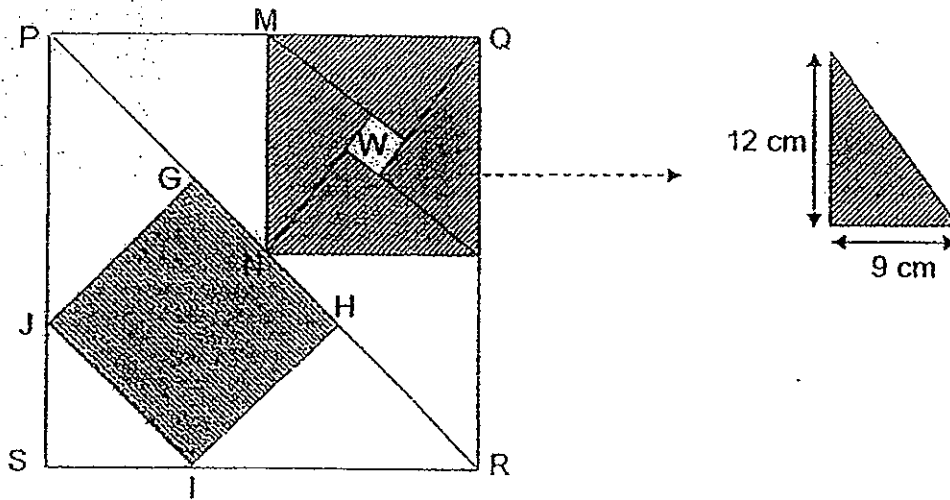
- 16 There were 600 people watching a play in a theatre. The number of adults in the theatre was three times the number of children in the theatre. The total amount collected from the sale of tickets to the play was \$16 800. The price of one adult ticket was twice the price of a child ticket. Find the total amount collected from the sale of the children's tickets.

Ans: \_\_\_\_\_ [5]

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- 17 PQRS is a square with an area of  $900 \text{ cm}^2$ . The shaded parts are made up of 2 different squares, Square GHIJ and Square MQPN respectively. Square MQPN is made up of 4 identical right-angled triangles and a small square W. The measurement for each of the triangles is as shown on the right of the figure.

- (a) Find the area the Square MQPN.  
 (b) Find the area the Square GHIJ.



Ans: (a) \_\_\_\_\_ [3]

(b) \_\_\_\_\_ [2]

- 18 Abdul bought 4 times as many candy bars as chocolate bars. The total mass of candy bars and chocolate bars was 1.64 kg. The mass of chocolate bars was 0.84 kg heavier than that of the candy bars. The mass of 1 bar of chocolate bar was 0.228 kg heavier than 1 bar of candy bar. Find the number of chocolate bars that Abdul bought.

Ans: \_\_\_\_\_ [5]

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END OF PAPER





# ExamSutra 考试圣经

## Answer Sheets

### EXAM PAPER 2012

SCHOOL : Nanyang Primary School  
 SUBJECT : Primary 5 - Maths  
 TERM : SA 1

Paper 1

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

- 16 1020019
- 17 2340
- 18 30
- 19 135
- 20 1/2
- 21 13/22
- 22 310
- 23 6.5
- 24 5
- 25 2120.45
- 26  $1248 + 2620 - 450 = 3418$
- 27  $1 - 5/9 = 4/9$   
 $1/4 \times 4/9 = 1/9$   
 $1 - 5/9 - 1/9 = 3/9$   
 $3/9 = 12.3\text{kg}$   
 original = 36.9kg
- 28  $6 \times 3 = 18$   
 $6/18 = 1/3$
- 29  $19.01 - 10.01 = 9$   
 $9 \times 5 = 45$
- 30  $18 - 1 = 17$   
 $17 \times 200 + 2 \times 18 = 3436\text{m}$

Paper 2

- 1  $x + 1$
- 2  $4 \frac{7}{12} - 1 \frac{5}{6} = 2 \frac{3}{4}$   
 $2 \frac{3}{4} + 3 = 11 \frac{1}{2}$   
 $11 \frac{1}{2} \times 4 = 3 \frac{2}{3}$
- 3  $19/21 + 3 = 19/3$   
 $19/63 \times 10 = 3.02$

# EXAM PAPER 2012

**SCHOOL :** Nanyang Primary School  
**SUBJECT :** Primary 5 - Maths  
**TERM :** SA 1

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- 4  $1.45 + 0.55 = 2\text{m} = 200\text{cm}$
- 5  $3 \times 3 = 9$   
 $1/2 \times 3 \times 1.5 = 2.25$
- 6  $124 + 27 = 151$   
 $151 - 56 = 95$
- 7  $1/4 = 2/8$   
 $6 - 5 = 3$   
 $488 \div 3 = 166$   
 $166 \times 8 = 1328$
- 8  $8 + 7 = 15$   
 $45 + 15 = 3$   
 $3 \times 8 = 24$
- 9 Trial and error:  
Big square has 11 rows, small has 8 rolls  
Answer = 8
- 10  $1/2 \times 6 \times 4 = 12$   
 $12 \div 3 = 4$   
 $4 \times 5 = 20$
- 11a  $64 + 48 + 42 = 144$   
 $144 / 2 = 72$
- 11b  $72 - 42 = 30$   
 $30 / 72 = 5/12$
- 12  $78 \times 2 = 156$   
 $156 - 24 = 132$   
 $234 + 132 = 366$   
 $366 \div 3 = 122$   
 $122 + 78 = 200$
- 13  $246 \div 3 = 82$   
 $82 \times 5 = 410$   
 $410 \div 10 = 41$   
 $41 \times 4 = 164$
- 14  $88 \div 4 = 22$   
 $4.40 \div 4 = 1.10$   
 $22 + 1.10 = 20$
- 15  $340 - 25 = 315$   
 $315 \div 30 = 345$   
 $4 + 4 + 7 = 15 \text{ units}$   
 $345 \div 15 = 23$   
 $23 \times 4 = 92$   
 $92 + 25 = 117$



# EXAM PAPER 2012

SCHOOL : Nanyang Primary School  
SUBJECT : Primary 5 - Maths  
TERM : SA 1

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- 16  $600 \div 4 = 150$   
 $150 \times 3 = 450$   
 $450 \times 2 = 900$   
 $900 + 150 = 1050$   
 $16800 \div 1050 = 16$   
 $16 \times 150 = 2400$
- 17a  $4 \times \frac{1}{2} \times 12 \times 9 = 216$   
17b  $\sqrt{900} = 30$   
 $30 \div 2 = 15$   
 $15 \times 15 = 225$
- 18  $1.64 - 0.84 = 0.8$   
 $0.8 \div 2 = 0.4$   
Total weight of candy = 0.4kg  
Total weight of chocolate = 1.24kg  
Assuming same number of candy and chocolate,  
candy will weigh 0.1kg  
Difference in weight is  $1.24 - 0.1 = 1.14$ kg  
 $1.14 \div 0.228 = 5$   
ie: Abdul bought 5 chocolate bars

