

NANYANG PRIMARY SCHOOL
FIRST SEMESTRAL EXAMINATION
2010

PRIMARY 5
MATHEMATICS
PAPER 1

DURATION: 50 MINUTES

Booklet A	/ 20
Booklet B	20

Paper 1 Total: / 40

Name: _____ ()

Class: Primary 5 ()

Date: 14 May 2010

Parent's Signature: _____

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)

1 Find the value of $\frac{3}{50}$.

(1) 0.6

(2) 0.3

(3) 0.06

(4) 0.03

2 What is the missing number in the box below?

$$\frac{4}{5} - \frac{3}{4} = \frac{1}{\square}$$

(1) 10

(2) 20

(3) 30

(4) 40

3 How many tenths are there in the difference of $8\frac{2}{5}$ and $6\frac{7}{10}$?

(1) $1\frac{7}{10}$

(2) 7

(3) $15\frac{1}{10}$

(4) 17

4 What is the product of 5.183 and 10?

(1) 0.5183

(2) 51.83

(3) 518.3

(4) 51830

5 Which one of the following is the best estimate of $18.87 \div 199$?

(1) $10 \div 200$

(2) $20 \div 200$

(3) $18 \div 100$

(4) $19 \div 100$

6 Express 0.09 l in ml .

(1) 9 ml

(2) 90 ml

(3) 900 ml

(4) 9000 ml

7 Dave bought 20 dozens of apples and packed them into packets of 10.
How many packets of apples were there?

(1) 12

(2) 2

(3) 24

(4) 2400

- 8 Krist ran a distance of 1 km. After a short rest, she ran another $\frac{1}{3}$ km. If her sister only ran $\frac{1}{2}$ of the total distance that she has covered, what fraction of the total distance covered by Krist did her sister run?

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

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

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

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

- 9 Mrs Seet bought 3 kg of potatoes and used 1 kg of it. She then shared the rest equally with her mother and two sisters. How many kilograms of potatoes would each of them receive?

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

(2) 2

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

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

- 10 Michael bought 1 pizza. He ate $\frac{1}{4}$ of the pizza and shared the remaining pizza among 6 friends equally. What fraction of the pizza did each friend receive?

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

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

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

(4) $\frac{1}{24}$

- 11 Mr Ang wants to paint 6 identical doors in his house. He needs $1\frac{3}{8}$ cans of green paint and $1\frac{2}{9}$ cans of blue paint to paint each door. What is the minimum number of cans of paint he needs to buy altogether?

(1) 15

(2) 16

(3) 17

(4) 18

12 Find the missing fraction in the box below.

$$\frac{1}{3} + \boxed{} = \frac{5}{9}$$

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

(2) $\frac{2}{9}$

(3) $\frac{4}{9}$

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

13 Find the value of $16 - 2 \times 5 + 24 \div 2$.

(1) 15

(2) 18

(3) 47

(4) 82

- 14 The postage charge for sending a parcel by air to Country R is shown below.

First 250 g	\$7.60
Additional 125 g or part thereof	\$4.25

What is the postage charge for sending a parcel which weighs 1.5 kg to Country R?

- (1) \$42.50
(2) \$45.60
(3) \$50.10
(4) \$51.00
- 15 Alan, Ben, Caleb, Danny and Eric took part in a *Weiqi* competition. At the moment, the number of games played is shown below.

Alan has played 4 games.
Ben has played 3 games.
Caleb has played 2 games.
Danny has played 1 game.

If all contestants are required to play against one another, how many games has Eric played so far?

- (1) 1
(2) 2
(3) 3
(4) 4

Name: _____ () Class: Pr 5 ()

P5 SA1 2010

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)

16 Write 503 091 in words.

Ans: _____

17 What is the missing number in the box below?

$$84\,000 \div 1200 = 840 \div \boxed{}$$

Ans: _____

18 During a promotion at a shopping centre, every 6th shopper will be given a lucky draw coupon. How many lucky draw coupons will be given to a group of 170 shoppers?

Ans: _____

19 Find the value of $3 \times 40 - (10 + 20 \div 2) + 15$.

Ans: _____

20 Find the value of $\frac{3}{8} \times \frac{4}{7}$. Express your answer in its simplest form.

Ans: _____

21 Find the value of $1\frac{7}{8} \times 6$.

Ans: _____

22 Round off the product of 3.678 and 200 to the nearest whole number.

Ans: _____

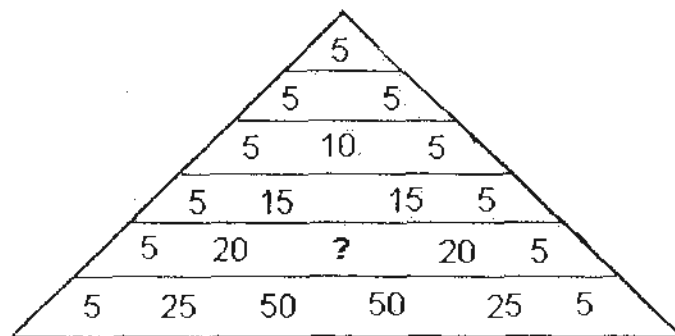
23 Express 2 km 150 cm in metres.

Ans: _____ m

24 Some flour weighing 1.8 kg is packed into 30 bags equally. What is the mass of the flour in each bag? (Leave your answer in grams.)

Ans: _____ g

25 Study the numbers in the triangle below. It follows a certain number pattern. What is the missing number?



Ans: _____

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 There are 2 whole numbers. When rounded off to the nearest thousand, the numbers became 4000 and 2000 respectively. What is the difference between the greatest possible value of the 2 numbers?

Ans: _____

- 27 What is the missing number in the box below?

$$18.248 = 18 + \frac{1}{5} + \frac{12}{\square}$$

Ans: _____

- 28 X is $\frac{5}{3}$ of Y. Y is $\frac{3}{2}$ of Z. What fraction of Z is X?

Ans: _____

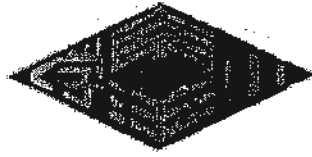
- 29 The breadth of a rectangle is $\frac{1}{5}$ of its length. If the length of the rectangle is 17.5 m, what is its perimeter? (Leave your answer in cm.)

Ans: _____ cm

- 30 What is the missing fraction in the number pattern below? Express your answer in its simplest form.

$$1\frac{3}{4}, 2\frac{4}{5}, \underline{\hspace{2cm}}, 4\frac{9}{10}, 5\frac{19}{20}$$

Ans: _____



NANYANG PRIMARY SCHOOL
FIRST SEMESTRAL EXAMINATION
2010

PRIMARY 5
MATHEMATICS
PAPER 2

DURATION: 1 HOUR 40 MINUTES

Paper 2 Total	/ 60
GRAND TOTAL	/ 100

Name: _____ ()

Class: Primary 5 ()

Date: 14 May 2010

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 A basket which contains 1 packet of potatoes and 5 packets of onions weigh 3 kg 438 g. The mass of the basket is 0.158 kg and the mass of each packet of onion is 320 g. What is the mass of one packet of potato in kilograms?

Ans: _____ kg

-
- 2 (a) Insert a pair of brackets, (), in the number statement below to make it a correct number statement.

$$3 \times 9 + 5 + 10 \div 5 + 16 = 36 \quad [1]$$

- (b) What is the missing number in the number statement below?

$$25 + (40 \div 5 - \boxed{?}) \times 4 = 45$$

Ans: (b) _____ [1]

- 3 Emily took $1\frac{1}{5}$ minutes to run 1 round around the track. If she ran at the same speed, how many minutes would she take to run $2\frac{1}{2}$ rounds around the track?

Ans: _____ min

- 4 Rashid read $\frac{4}{9}$ of a book on Tuesday. On Wednesday, he read $\frac{2}{5}$ of the remaining pages. What fraction of the book did he read altogether?

Ans: _____

- 5 A butcher sold $1\frac{2}{3}$ kg of meat on Monday. He sold $\frac{5}{9}$ kg less on Tuesday than on Monday. The mass of meat that he sold on Wednesday was twice that of what he sold on Tuesday. What was the total amount of meat sold on these 3 days?

Ans: _____ kg

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 Tom had 5 times as many stamps as Linus. When Tom gave Linus some stamps, they each had 165 stamps. How many stamps did Tom have at first?

Ans: _____ [3]

- 7 In a packet, the number of red balloons is $\frac{5}{6}$ of the number of yellow balloons. The number of yellow balloons is $\frac{3}{4}$ of the number of green balloons. What is the total number of balloons in the packet if there are 152 green balloons in it?

Ans: _____ [3]

- 8 Sally wanted to buy a pair of shoes. She only had $\frac{1}{5}$ of the cost of the pair of shoes. After her mother gave her \$33, she was still short of $\frac{1}{4}$ of the cost of the pair of shoes. How much did the pair of shoes cost?

Ans: _____ [3]

- 9 Xiaohua has 1496 stamps while Paul has 509 stamps less than what Xiaohua has. Bala has twice as many stamps as Paul. How many stamps do they have altogether? Round off your answer to the nearest thousand.

Ans: _____ [3]

- 10 Zareen's father gave him a one-time allowance of \$30 to spend. His father instructed him to only take either \$5 or \$10 each day from the cash box for his allowance.

The table below shows 3 ways that Zareen could spend all his pocket money over a few days.

List down 6 other possible ways in the given table below to show how Zareen could spend all his pocket money.

	Amount of money taken out (\$)	Total (\$)
1.	5, 5, 5, 5, 10	30
2.	10, 5, 5, 10	30
3.	5, 10, 5, 10	30
4.		30
5.		30
6.		30
7.		30
8.		30
9.		30

[3]

- 11 The charges for water usage are shown in the table below.

Amount of water used	Charges
First 25 m ³	\$0.65 per m ³
Next 25 m ³	\$0.85 per m ³
Above 50 m ³	\$1.25 per m ³

Mr Tok paid a total bill of \$60 in March. How much water did his family use in March?

Ans: _____ [4]

12 John filled $\frac{3}{8}$ of a tank with 3 identical jugs of water. He poured another 2 identical jugs and 9 identical cups of water to fill the tank to its brim.

- (a) What fraction of the tank can 1 jug of water fill?
- (b) If only cups are used to fill the empty tank to its brim, how many identical cups are needed?

Ans: (a) _____ [1]

(b) _____ [3]

13 Hui Hui paid \$1000 for 30 concert tickets. There were \$20, \$30 and \$45 tickets. Hui Hui bought 3 times as many \$30 tickets as \$20 tickets.

(a) How many \$45 tickets did she buy?

(b) How many \$30 tickets did she buy?

Ans: (a) _____ [3]

(b) _____ [1]

- 14 Jovi had 2 strings, string A and string B. Initially, string A was thrice the length of string B. Jovi then cut 9.1 m from string A and 140 cm from string B. The length of string B became 1.5 times of string A. What is the length of string A at first? Express your answer in centimetres.

Ans: _____ [4]

- 15 There are 9 stacks of chairs in the hall. There are 12 chairs in each stack. Mohan places each chair equally spaced apart to form the perimeter of a rectangle. If the number of chairs placed along its length is thrice the number of chairs placed along its breadth, how many chairs are placed along one of the lengths of the rectangle?

Ans: _____ [4]

16 Mrs Tan bought 4 times as many toy guns as teddy bears. She spent \$1750 altogether. A toy gun cost \$10 less than a teddy bear. The total cost of toy guns was \$490 more than the total cost of teddy bears.

(a) How much did Mrs Tan spend on the teddy bears?

(b) How much did one teddy bear cost?

Ans: (a) _____ [1]

(b) _____ [4]

17

Marie, Jonathan and David shared a sum of money. The total amount of money received by Jonathan was $\frac{2}{3}$ the amount of money received by David. Marie received twice as much as what Jonathan and David received. After Marie had given \$48 to Jonathan and \$27 to David, Jonathan gave \$3 to David. In the end, 3 of them had the same amount of money. Find the difference between the amount of money that Marie and Jonathan had at first.

Ans: _____ [5]

18 Kailing bought 15 packets of sugar and 35 packets of flour from a grocery shop. Andy bought 10 identical packets of sugar and 25 identical packets of flour from the same shop. The cost of a **packet** of flour was \$1.35 more than a packet of sugar. Kailing spent \$27 more than Andy.

- (a) How much did a packet of sugar cost?
- (b) If Sandra wants to buy 22 packets of sugar and 13 packets of flour, how much money does she need?

Ans: (a) _____ [4]

(b) _____ [1]

END OF PAPER

Setters: Mr Low Kiah Wee
Mdm Denise Jung

ANSWER SHEET

EXAM PAPER 2010

SCHOOL : NANYANG PRIMARY
SUBJECT : PRIMARY 5 MATHEMATICS

TERM : SA1

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

16) five hundred and three thousand and ninety-one

17) 12

18) 28

19) 115

20) $\frac{3}{14}$

21) $11\frac{1}{4}$

22) 736

23) 2001.50m

24) 60g

25) 30

26) 2000

27) 250

28) $2\frac{1}{2}$

29) 4200cm

30) $3\frac{17}{20}$

Paper 2

1) $320 \times 5 = 1600$ $1600 \div 1000 = 1.600$ $1.600 + 0.158 = 1.758$ $438 \div 1000 = 0.438$ $3 + 0.438 = 3.438$ $3.438 - 1.758 = 1.680\text{kg}$	2) a) $3 \times 9 - (5 + 10 \div 5) + 16 = 36$ b) $45 - 25 = 20$ $20 \div 4 = 5$ $40 \div 5 = 8$ $8 - 5 = 3$
3) 3 min	4) $\frac{5}{9} \times \frac{2}{5} = \frac{2}{9}$ $\frac{4}{9} + \frac{2}{9} = \frac{6}{9}$
5) $\frac{12}{3} = \frac{16}{9}$ $\frac{16}{9} - \frac{5}{9} = \frac{11}{9}$ $\frac{16}{9} + \frac{11}{9} = \frac{27}{9}$ $\frac{27}{9} + \frac{11}{9} + \frac{16}{9} = \frac{54}{9}$ = 6kg	6) $5 + 1 = 6$ $6 \div 2 = 3$ 3 units \rightarrow 165 1 unit \rightarrow $165 \div 3 = 55$ 5 units \rightarrow $55 \times 5 = 275$

<p>7) $152 \div 4 = 38$ $38 \times 3 = 114$ $114 \div 6 = 19$ $19 \times 11 = 209$ $209 + 152 = 361$</p>	<p>8) $\\$33 \div 11 = \\3 $\\$3 \times 20 = \\60</p>
<p>9) $1496 - 509 = 987$ $987 \times 2 = 1974$ $1974 + 1496 + 987 = 4457$ $4457 \approx 4000$</p>	<p>10) 4) 10,10,10 5) 5,5,5,5,5,5, 6) 10,5,10,5, 7) 5,10,10,5, 8) 10,5,5,5,5, 9) 5,10,5,5,5,</p>
<p>11) $56c \times 25 = \\$16.25$ $85c \times 25 = \\$21.25$ $\\$21.25 + \\$16.25 = \\$37.50$ $\\$60 - \\$37.50 = \\$22.50$ $\\$22.50 \div \\$1.25 = 18$ $50 + 18 = 68m^3$</p>	<p>12) a) $3/8 \div 3 = 3/8 \times 1/3 = 1/8$ b) $3 + 2 = 5$ $1/8 \times 5 = 5/8$ $8/8 - 5/8 = 3/8$ $9 \div 3 = 3$ $3 \times 8 = 24$</p>
<p>13) a) $\\$30 \times 3 = \\90 $\\$90 + \\$20 = \\$110$ $\\$1000 - \\$110 = \\$890$ $\\$110 \times 4 = \\440 $\\$890 - \\$440 = \\$450$ $\\$450 \div \\$45 = 10$ b) $5 \times 3 = 15$</p>	<p>14) $9.1m = 910m$ $910 \rightarrow 7 \text{ units} + (140 \times 3)$ $= 7 \text{ units} + 420$ $7 \text{ units} \rightarrow 490$ $1 \text{ unit} \rightarrow 490 \div 7 = 70$ $2 \text{ units} \rightarrow 70 \times 2 = 140$ $140 + 910 = 1050cm$</p>
<p>15) $108 + 4 = 112$ $112 \div 8 = 14$ $14 \times 3 = 42$</p>	<p>16) a) $\\$630$ b) $\\$18$</p>
<p>17) $\\$48 + \\$27 = \\$75$ $\\$75 \div 5 = \\15 $10 - 2 = 8$ $\\$15 \times 8 = \\120</p>	<p>18) a) 90c b) $\\$49.05$</p>