



NANYANG PRIMARY SCHOOL
SECOND CONTINUAL EXAMINATION
2009

PRIMARY 5
MATHEMATICS

PAPER 1

DURATION: 50 MINUTES

Booklet A	/ 20
Booklet B	/ 20

Paper 1 Total: / 40

Name: _____ ()

Class: Primary 5 ()

Date: 26 August 2009

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)

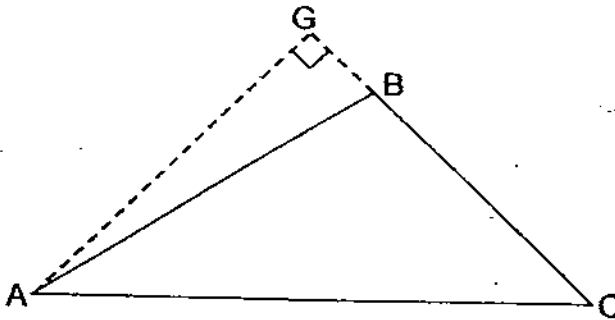
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

(20 marks)

1 What is the value of $36 + 2 \times 10 - (48 + 24)$?

- (1) 52
- (2) 54
- (3) 308
- (4) 378

2 In the figure shown below, what is the base of triangle ABC given that the height is AG?



- (1) AB
- (2) AC
- (3) BC
- (4) CG

- 3 Jayden played the trumpet for 9 hours, the violin for 3 hours and the French horn for 6 hours in a week. What is the ratio of the time he spent playing the French horn to playing the violin to playing the trumpet? Express your answer in its simplest form.

(1) 3 : 2 : 1

(2) 2 : 1 : 3

(3) 3 : 1 : 2

(4) 2 : 3 : 9

- 4 Alex's height is $\frac{5}{6}$ of Bala's height. Catherine's height is $\frac{5}{8}$ of Bala's height. What is the ratio of Alex's height to Bala's height to Catherine's height?

(1) 24 : 15 : 20

(2) 20 : 15 : 24

(3) 20 : 24 : 15

(4) 40 : 30 : 48

5 What is the quotient of 43.1 and 100?

(1) 0.431

(2) 4.31

(3) 431

(4) 4310

6 What is the estimated product of 13 935 and 2 by first rounding off the 5-digit number to the nearest thousand?

(1) 20 000

(2) 27 800

(3) 28 000

(4) 40 000

7 The mass of a tin of biscuits is 5.65 kg. The mass of a small packet of chocolates is 450 g. What is the total mass of the tin of biscuits and the small packet of chocolates?

(1) 1015 g

(2) 5695 g

(3) 6100 g

(4) 10 150 g

8 Alvin spends an average amount of \$408 a month. What is his total spending in a year?

(1) \$1224

(2) \$1296

(3) \$4896

(4) \$5616

9 The average mass of three boys is 43 kg. The average mass of two of the boys is 40 kg. What is the mass of the third boy?

(1) 20 kg

(2) 37 kg

(3) 49 kg

(4) 80 kg

10 Express 24 cm as a percentage of 150 cm.

(1) 0.16 %

(2) 0.24 %

(3) 16 %

(4) 36 %

11 A candy machine makes lollipops at a constant rate of 10 pieces in every 100 seconds. How many lollipops can it make in an hour?

- (1) 36
- (2) 360
- (3) 600
- (4) 3600

12 In a relay event, Jane, Siti and May were required to run a total distance of 10 km. Jane ran $4\frac{1}{2}$ km. Siti ran $\frac{2}{5}$ km less than Jane. What was the distance that May had to run in order to complete the relay?

- (1) $1\frac{2}{5}$ km
- (2) $4\frac{1}{10}$ km
- (3) $5\frac{1}{10}$ km
- (4) $8\frac{3}{5}$ km

- 13 Mrs Lim had $1\frac{9}{10}$ ℓ of cooking oil. She used $\frac{5}{9}$ of it to fry chicken wings. How much oil did she use?

(1) $\frac{4}{9}$ ℓ

(2) $\frac{19}{90}$ ℓ

(3) $1\frac{1}{18}$ ℓ

(4) $1\frac{31}{90}$ ℓ

- 14 Sufen has twice as many flowers as Rosie. When Sufen gives 14 flowers to Rosie, she still has 8 more flowers than Rosie. What is the average number of flowers the girls have now?

(1) 36

(2) 54

(3) 108

(4) 216

15 Jenny spent \$32 on food and \$88 on books. If she had \$200 at first, what percentage of her money did she have in the end?

- (1) 0.4 %
- (2) 0.6 %
- (3) 40 %
- (4) 60 %

Name: _____ () Class: Pr 5 ()

P5 CA2 2009

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 The cost of printing the 'Kids Walkathon' T-shirts is \$34 512. Round off the amount to the nearest ten thousand dollars.

Ans: \$

- 17 Find the value of 690×700 .

Ans: _____

- 18 Kevin paid \$15 698 for a piano and \$12 449 for a drum-set. Round off the amount that he paid for each item to the nearest hundred first and then find the estimated total amount paid by Kevin.

Ans: \$ _____

- 19 Express 18 : 42 : 54 in its simplest form.

Ans: _____

- 20 The ratio of Radiah's money to Sharon's money is 4 : 5. Radiah has \$48. How much money do they have altogether?

Ans: \$ _____

- 21 Eight bakers shared 67 kg of bread flour equally. How much flour did each baker get? Give your answer correct to 1 decimal place.

Ans: _____ kg

- 22 A piece of string measures $\frac{9}{11}$ m. Mary cuts it equally into 6 pieces. What is the length of each piece of string?

Ans: _____ m

- 23 Mr Zhuo bought some fruits. $\frac{4}{7}$ of them were apples and the rest were oranges. $\frac{7}{12}$ of the oranges were fresh, what fraction of the fruits were rotten oranges?

Ans: _____

- 24 1.8 ℓ of paint was needed to paint the outer surfaces of 7 closed boxes. How much paint was required to paint one closed box? Round off your answer to 2 decimal places.
-

Ans: _____ ℓ

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

$$\boxed{} \% \text{ of } 20 \text{ kg} = 14\,000 \text{ g}$$

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 Mrs Lee took $1\frac{7}{8}$ h to bake a loaf of wholemeal bread. Next, she took double the time to bake pineapple tarts. What was the total time that she took to complete her baking?

Ans: _____ h

-
- 27 Simon gave $\frac{4}{9}$ of his money to his wife and spent $\frac{3}{5}$ of the remaining money. If he had \$160 left, how much money did he have at first?

Ans: \$ _____

- 28 A book costs \$7.80 and a calculator costs \$8.20. What is the average cost of 10 such books and 10 such calculators?

Ans: \$ _____

- 29 Muthu saved \$400 and Sam saved \$500. After Muthu spent some of his savings, his savings decreased by 25%. What percentage of Sam's savings was Muthu's savings in the end?

Ans: _____ %

30 Find the sum of $1 + 2 + 3 + \dots + 99 + 100 + 101$.

Ans: _____

END OF PAPER



NANYANG PRIMARY SCHOOL
SECOND CONTINUAL EXAMINATION
2009

PRIMARY 5
MATHEMATICS

PAPER 2

DURATION: 1 HOUR 40 MINUTES

Paper 2 Total	/ 60
GRAND TOTAL	/ 100

Name: _____ ()

Class: Primary 5 ()

Date: 26 August 2009

Parent's Signature: _____

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

FOLLOW ALL INSTRUCTIONS CAREFULLY.

ANSWER ALL QUESTIONS.

YOU ARE ALLOWED TO USE A CALCULATOR.

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 Mr Lim had 1890 twenty-cent coins. Mr Tan had $2\frac{3}{10}$ of the number of coins that Mr Lim had. How much money did Mr Tan have?

Ans: \$ _____

- 2 Mary bought a TV set. She paid an initial payment of \$328. The rest of the amount was paid in monthly instalments of \$80.80 over a period of 24 months. What was the cost of the TV set?

Ans: \$ _____

- 3 The interest rate for a fixed deposit account in Bank A is 2.5 % per year. If Mr Tan invests \$20 000 in such an account, how much will he have in his account after a year?

Ans: \$ _____

- 4 Bags A and B contained a total of 78.39 kg of rice. After $\frac{1}{4}$ of the rice in Bag A was transferred to Bag B, both bags had the same amount of rice. How many grams of rice were transferred from Bag A to Bag B?

Ans: _____ g

- 5 The ratio of the number of Charlie's toy cars to the number of Xavier's toy cars was 9 : 2. After Charlie gave $\frac{1}{3}$ of the toy cars to Xavier, he still had 10 cars more than Xavier. How many toy cars did Charlie give to Xavier?

Ans: _____

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 A group of boys played only two types of sports during recess.

$\frac{1 \times 3}{4 \times 3}$ of them played badminton and $\frac{2 \times 4}{3 \times 4}$ of them played football.

$\frac{1 \times 2}{6 \times 2}$ of the boys played both sports and 90 boys did not play any sports at

all. How many boys were there?

Ans: _____ [3]

- 7 Mohamed answered 30 quiz questions and scored 54 marks. For each correct answer, 5 marks were given. For each wrong answer, 3 marks were deducted. How many correct answers did Mohamed get?

Ans: _____ [3]

- 8 The ratio of Ahmad's age to Suri's age is 5 : 3 now. 4 years ago, the ratio was 7 : 4. How old is Ahmad now?

Ans: _____ [3]

- 9 Tank A contains 3 times as much water as tank B. After Dolly adds 680 m l of water into tank A and 8.36 l of water into tank B, the two tanks now contain the same amount of water. How many millilitres of water are in the two tanks now?

Ans: _____ [3]

- 10 The amount of money that Betty had was $\frac{5}{7}$ of the amount of money that Shanil had. If Shanil gave Betty \$28, the amount of money that Betty had was 140% of the amount of money that Shanil had. How much money did they have altogether?

Ans: _____ [3]

- 11 Henry received his examination result slip but it was torn.

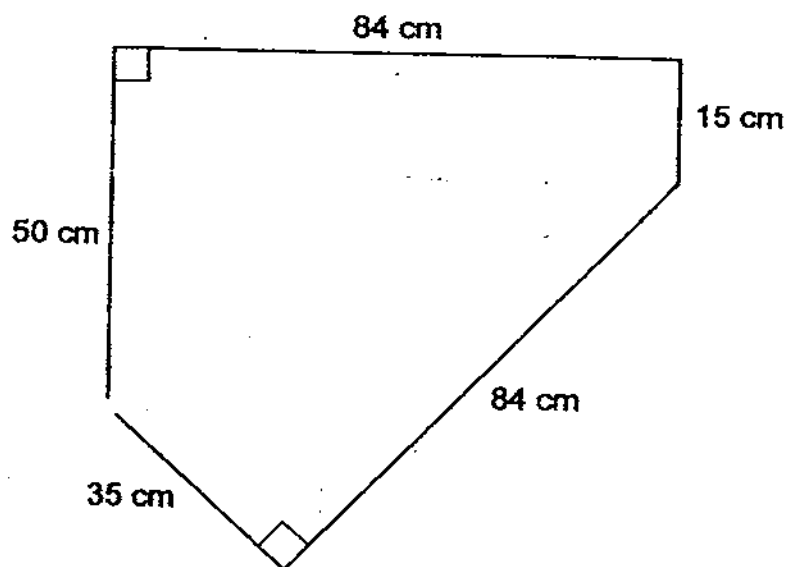
Result Slip	
Name: Henry Tan	
English:	83
Chinese:	85
Mathematics:	9
Science:	8
Average Score:	

- (a) What could be Henry's highest possible average score, if all the scores are in whole numbers?
- (b) If Henry scored 91 marks for Mathematics and had an average score of 85.5 for the four subjects, how many marks did he score for Science?

Ans: (a) _____ [2]

(b) _____ [2]

12 The figure below is not drawn to scale. Find its area.



Ans: _____ [4]

- 13 A dressmaker had some buttons. She used $\frac{1}{7}$ of them on Monday and $\frac{1}{11}$ of the remainder on Tuesday. On Wednesday, she bought 255 buttons and then had as many buttons as she had at first. How many buttons did she have at first?

Ans: _____ . [4]

14 Aunt Rosie bought an equal number of curry puffs and cupcakes for a tea party. The curry puffs were bought at 7 for \$2 and the cupcakes were bought at 5 for \$3. She paid \$33 more for the cupcakes than for the curry puffs.

- (a) How many curry puffs did Aunt Rosie buy?
- (b) How much did Aunt Rosie pay for the curry puffs?

Ans: (a) _____ [2]
(b) _____ [2]

15 Devi went shopping with an equal number of \$2 and \$5 notes. She spent 20% of her \$2 notes. She withdrew some \$5 notes from the bank and had 30% more \$5 notes than before. In the end, Devi had 15 more \$5 notes than \$2 notes.

(a) How many \$2 notes did Devi spend?

(b) How much money did Devi have at first?

Ans: (a) _____ [2]

(b) _____ [2]

16 Mrs Lim gave her two daughters, Liming and Lizhen, some money in the ratio of 8 : 9. Liming and Lizhen shared the cost of an electronic game in the ratio of 6 : 7. Liming used $\frac{3}{4}$ of her money to pay for her share of the electronic game. Lizhen was left with \$130 after paying for her share.

(a) How much did Liming get from her mother?

(b) What was the cost of the electronic game?

Ans: (a) _____ [3]

(b) _____ [2]

- 17 A stack of bookmarks was shared among Peter, Tom and Jerry. Peter received 3 more than 50% of the bookmarks. Tom received 5 more than half of the remaining bookmarks. After Peter and Tom had taken their share, Jerry received 50% of the remainder and the last 3 bookmarks. What percentage of the stack of bookmarks did Jerry receive?

Ans: _____ [5]

- 18 Kailing and Jim had a total of \$63. Kailing gave 0.3 of her share to Jim. Jim then gave $\frac{1}{3}$ of the total amount of money he had to his brother. In the end, all the three children had the same amount of money. How much money did Kailing have at first?

Ans: _____ [5]

END OF PAPER

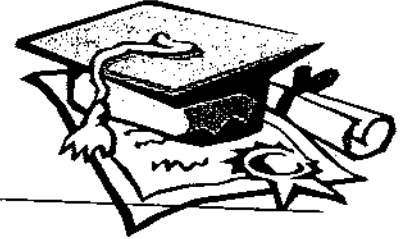


ANSWER SHEET

EXAM PAPER 2009

SCHOOL : NANYANG PRIMARY
SUBJECT : PRIMARY 5 MATHEMATICS

TERM : CA2



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

- 16) \$30000 17) 483000 18) \$28100 19) 3:7:9 20) \$108
 21) 8:4kg 22) 3/22m 23) 5/28 24) 0.26L 25) 70%
 26) 5s/sh 27) \$720 28) \$8 29) 60% 30) 5151

Paper 2

1) $1890 \times \frac{23}{10} = 4347$ $4347 \times \$0.20 = \869.40	2) $\$80.80 \times 24 = \1939.20 $\$1939.20 + \$328.00 = \$2267.20$
3) $2.5/100 \times 20000 = \$500$ $\$20000 + \$500 = \$20500$	4) 6 units $\rightarrow 78.39\text{kg}$ 1 unit $\rightarrow 78.39\text{kg} \div 6 = 13.065\text{kg}$ $= 13065\text{g}$
5) 30 toy cars	6) 360 boys
7) $5 \times 30 = 150$ $150 - 54 = 96$ $96 \div 8 = 12$ $30 - 12 = 18$	8) 60 years old
9) 24400ml	10) \$168

<p>11)a) $83+85+89+99=356$ $356 \div 4=89$ b) $83+85+91=259$ $85.5 \times 4=342$ $342-259=83$</p>	<p>12) $84 \times 15=1260\text{cm}$ $\frac{1}{2} \times 35 \times 84=171470\text{cm}^2$ $1470\text{cm}+1470\text{cm}^2+1260\text{cm}^2$ $=4200\text{cm}^2$</p>
<p>13) $77-60=17$ 17 units \rightarrow 255 1 unit \rightarrow 15 77 units \rightarrow $15 \times 77=1155$ buttons</p>	<p>14)a) $\\$21-\\$10=\\$11$ $\\$33 \div \\$11=\\$3$ $3 \times 35=105$ curry puffs. b) $105 \div 7=15$ $15 \times \\$2=\\30</p>
<p>15)a) 6 \$2 notes b) \$210</p>	<p>16)a) \$520 b) \$845</p>
<p>17) 12%</p>	<p>18) \$36</p>