**NANYANG PRIMARY SCHOOL**

# FIRST CONTINUAL EXAMINATION 2013

# PRIMARY 6

# MATHEMATICS

# PAPER 1

## DURATION: 50 MINUTES

| Booklet A | / 20 |
|-----------|------|
| Booklet B | / 20 |

| Paper 1 Total: |
|----------------|
| / 40 |

Name: _____ ( )

Class:  Primary 6 ( )

Date: _____

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    Simplify $6a + 18 - 4a - 12$.

   (1)    $2a - 6$

   (2)    $2a + 6$

   (3)    $2a + 30$

   (4)    $10a - 6$

2    Find the value of $3412 \div 100$.

   (1)    0.3412

   (2)    3.412

   (3)    34.12

   (4)    341.2

**3** Find the value of $72 - 8 \div 2 + (3 \times 8 \div 4)$.

(1) 38

(2) 62

(3) 70

(4) 74

**4** Which one of the following fractions is not the equivalent fraction of $\frac{3}{7}$?

(1) $\frac{6}{14}$

(2) $\frac{15}{35}$

(3) $\frac{24}{49}$

(4) $\frac{27}{63}$

5    Find the value of $\dfrac{2}{5} + \dfrac{6}{10}$.

(1)    1

(2)    $\dfrac{8}{5}$

(3)    $\dfrac{8}{10}$

(4)    $\dfrac{8}{15}$

6    The length of a string is $1\dfrac{1}{4}$ m.    Find the total length of 8 such strings.

(1)    $\dfrac{5}{32}$ m

(2)    $6\dfrac{1}{2}$ m

(3)    2 m

(4)    10 m

7    Express 0.075 as a percentage.

    (1)    0.75%

    (2)    7.5%

    (3)    75%

    (4)    750%

8    Find the sum of 0.25 and 0.4.

    (1)    0.15

    (2)    0.29

    (3)    0.65

    (4)    4.25

9    A jug can hold $\frac{7}{8}$ $l$ of orange juice when it is completely full.   What is

the amount of orange juice in the jug when it is $\frac{2}{3}$ full?

(1)    $\frac{7}{12}$ $l$

(2)    $\frac{7}{24}$ $l$

(3)    $2\frac{5}{8}$ $l$

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

10   The table shows the scores that four students obtained for their English test.  Find the student whose score was the closest to the average score of the 4 students.

| Name | Score |
|---|---|
| Joe | 50 |
| Kumar | 85 |
| Caili | 45 |
| Halim | 100 |
| Total | 280 |

(1)    Joe

(2)    Kumar

(3)    Caili

(4)    Halim

11 What is the missing number in the box?

$$1.23 \times 100 = \boxed{\phantom{XX}} \times 1\,000$$

(1)     0.0123

(2)     0.123

(3)     1.23

(4)     12.3

12 The number of beads in Bag B is 4 times that of Bag C. The number of beads in Bag A is $2\frac{1}{2}$ times that of Bag B. If there are 5 beads in Bag C, how many beads are there in Bag A?

(1)     10

(2)     25

(3)     40

(4)     50

**13**   There were 50 apples in a box.   Mrs Lee put in 12 more apples.   What was the percentage increase in the number of apples?

    (1)   6%

    (2)   24%

    (3)   80%

    (4)   125%

**14**   72 pupils are divided into groups to work on a Social Studies project. Each group is made up of 2 or 6 pupils.   If the numbers of groups of 2 and 6 pupils are the same, how many groups are there altogether?

    (1)   9

    (2)   12

    (3)   18

    (4)   36

15 The average of 11 numbers is 9. If the sum of the first 10 numbers is 85, find the 11$^{th}$ number.

(1) 5

(2) 14

(3) 76

(4) 731

Name:_____(          )     Class: Pr 6 (        )

## 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**   Find the value of $24 - \dfrac{5x}{3}$ when $x = 6$.

Ans:_____

---

**17**   Find the value of $7492 - 3489 + 219$.

Ans:_____

---

**18**    Find the value of 49 × 3 + 55 ÷ 5.

Ans: _____

---

**19**    Round off 29 992 to the nearest hundred.

Ans: _____

---

**20**    Express $2\dfrac{7}{8}$ as a decimal and leave your answer to 2 decimal places.

Ans: _____

---

**21** Find the value of $12.24 \div 6$.

Ans:_____

---

**22** What is $\frac{1}{4}$ of $\frac{3}{5}$ km? Express your answer in metres.

Ans:_____ m

---

**23** Find the value of $\frac{4}{5} \div \frac{1}{10}$.

Ans:_____

**24**   What is 80% of 20?

Ans:_____

---

**25**   70% of a number is 210.   What is the 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   Joe had $15. Ali had $q$ times as much money as Joe. Ravi had $3q$ more than Ali. How much did the 3 boys have altogether? Express your answer in terms of $q$.

Ans: $_____

---

27   Aishah spent 15% of her money on a belt and 40% of it on a handbag. She spent the rest of her money on a dress. How many percent more did she spend on the dress than on the belt?

Ans: _____%

---

28     Lily and Shane each has a sum of money. If Shane spends $\frac{3}{5}$ of his

money and Lily spends $\frac{3}{7}$ of her money, the two children will have the

same amount of money left. What fraction of the total sum of money is

Shane's money?

Ans: _____

29     The table shows the number of books borrowed by the pupils from a
class. Find the average number of books that were borrowed by the
pupils.

| Number of books | Number of pupils |
|-----------------|------------------|
| 0 | 15 |
| 1 | 30 |
| 2 | 15 |

Ans: _____

**30** David, Kumar and Irfan go to the gym on 2<sup>nd</sup> June and rest on the next day. After the rest day, David goes to the gym every 2 days, Kumar goes there every 3 days and Irfan goes there every 4 days. When will they next meet in the gym again?

Ans: _____

**NANYANG PRIMARY SCHOOL**

# FIRST CONTINUAL EXAMINATION 2013

# PRIMARY 6

# MATHEMATICS

# PAPER 2

### DURATION: 1 HOUR 40 MINUTES

| Paper 2 Total | / 60 |
|---|---|
| **GRAND TOTAL** | **/ 100** |

Name:_____ (         )

Class:  Primary 6 (          )

Date:_____

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**    Gina bought $2\frac{3}{4}$ $l$ of milk. She drank $\frac{1}{5}$ $l$ of milk. How many litres of milk were left?

Ans:_____ $l$

---

**2**    Mr See used a total of 50 m of wire to make 12 lanterns. What was the average length of wire that Mr See used for each lantern? Give your answer correct to 1 decimal place.

Ans:_____ m

---

1

3   The usual price of a wallet was $200.  During the Great Singapore Sale, a discount of 30% was given.  How much was the discount?

Ans: $_____

---

4   Mrs Kaur bought some standing fans for her tuition centre at an average price of $58.  If she bought another standing fan which cost $94, the average price would become $64.  Find the number of standing fans Mrs Kaur bought.

Ans:_____

---

5 There was an equal number of blouses and skirts sold. The blouses were priced at $12 each and the skirts were priced at $20 each. The total amount collected from the sale was $2048. How many blouses were sold?

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)    Susie spent 5 minutes less than $p$ hours to answer 50 questions in a test.    How many minutes did she spend to answer each question? Express your answer in terms of $p$.

(b)    If $p = 4$, how many minutes did she spend to answer each question?

Ans:  (a)_____ [2]

(b)_____ [1]

7    Box A contains ten-dollar notes while Box B contains five-dollar notes. There are 450 more notes in Box B than in Box A.    If the total amount of money in Box A and Box B is $7500, how many ten-dollar notes are there?

Ans:_____ [3]

4

8    The number of boys in a basketball court was $\dfrac{5}{4}$ of the number of girls

in a hall.   When 84 boys left the basketball court, the number of boys in

the basketball court became $\dfrac{2}{3}$ of the number of girls in the hall.   How

many boys were there at the basketball court at first?

Ans:_____[3]

9    A machine can cut a metal rod into 3 equal pieces with two cuts in
3.96 minutes.   At this rate, how long will the machine take to cut the
metal rod into 8 equal pieces?   Give your answer to the nearest
minute.

Ans:_____ [3]

10    Bala spent 50% more pocket money than Carol and Ali spent 20% less pocket money than Bala.    If Ali spent $36, how much pocket money did the children spend altogether?

Ans:_____[3]

---

11    There were some boys and girls in a bus.    When 15 girls alighted from the bus, the percentage of the boys in the bus increased from 25% to 40%.    How many children were in the bus in the beginning?

Ans:_____[4]

12  Billy and Arifin have to paint a three-room flat.  Billy can paint twice as fast as Arifin.  They will take a total of 8 hours to paint the entire flat. How long will Billy take to paint the whole flat if he paints the house by himself?

Ans:_____ [4]

13  Isabelle and Agnes decided to buy and share the cost of their father's birthday present.  Isabelle contributed $18 which was 25% of her savings.  Agnes contributed 60% of her savings.  The amount of Agnes' savings left was 0.5 as much as what Isabelle had left.  How much did Agnes contribute to buy the present?

Ans:_____ [4]

14   If Siva wants to buy 3 pens and 5 diaries, he will be short of $6.   If he buys 5 pens and 3 diaries, he will have $4 left.   Given that a pen costs $1.20, what is the maximum number of diaries Siva can buy with $20?

Ans:_____[4]

15   Bookworm Library has 5510 members.   $\frac{2}{5}$ of the adults are men. $\frac{2}{3}$ of the children are boys.   There are 2420 male members. How many adults are there?

Ans:_____[4]

16    There were some marbles in a container.  Leroy took out half of them

plus 3 more.   Then Olivia took out $\dfrac{1}{3}$ of the remaining marbles plus 2

more.   Finally, Ryan took out $\dfrac{1}{4}$ of the remaining marbles plus 5

more.   In the end, there were only 25 marbles in the container.   How

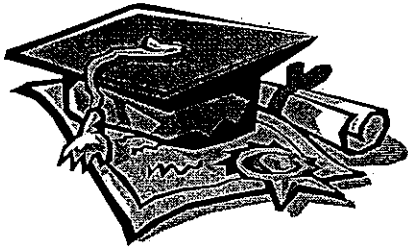many marbles were in the container at first?

Ans:_____ [5]

17 Alma and Mila went shopping with some money. Alma had $72 more than Mila at first. Alma spent $\frac{1}{6}$ of her money on a brooch while Mila spent $\frac{1}{4}$ of her money on a dress. After that, Alma had $84 more than Mila. How much money did Alma have at first?

Ans:_____ [5]

18    At first, Joan had $400 more than Thana.  Joan gave 60% of her
      money to Thana.  After that, Thana gave 25% of her money to Joan.
      In the end, Thana had $160 more than Joan.  How much money did
      Thana have at first?

                                          Ans:_____[5]


                              **END OF PAPER**

# ANSWER SHEET

**EXAM PAPER 2013**
**SCHOOL :  NANYANG**
**SUBJECT :  PRIMARY 6 MATHEMATICS**

**TERM     :  CA1**

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

16)14          17)4222          18)158          19)30000          20)2.88

21)2.04          22)150m          23)8          24)16          25)300

26)(15+33q)          27)200%          28)(10/17)          29)1          30)15<sup>th</sup> June

**Paper 2**
1)2¾ - 1/5 = 211/20

2)50 ÷ 12 ≈ 4.2m

3)30/100 x $200 = $60

4)$64 – $58 = $6
   $94 – $64 = $30
   $30 ÷ $6 = 5

5)$12 + $20 = $32
   $2048 ÷ $32 = 64

6)a)$(60p - 5) \div 50 = \dfrac{60p - 5}{50}$

  b)$60 \times 4 = 240$
    $240 - 5 = 235$
    $235 \div 50 = 4.7$ minutes

7)$450 \times \$5 = \$2250$
  $\$7500 - \$2250 = \$5250$
  $\$10 + \$5 = \$15$
  $\$5250 \div \$15 = 350$

8)$2/3 = 8/12$
  $5/4 = 15/12$
  $15 - 8 = 7$
  $84 \div 7 = 12$
  $12 \times 15 = 180$

9)$3.96 \div 2 = 1.98$
  $1.98 \times 7 \approx 14$ minutes

10)p→parts   U→units

    4p→$36
    1p→$9
    5p→$45
    3u→$45
    1u→$15
    2u→$30
    $36 + \$45 + \$30 = \$111$

11)<u>Before</u>          <u>After</u>
   B − 25%          B − 40%
   G − 75%          G − 60%

   B : G            B : G
   25 : 75          40 : 60

$= 1 : 3$          $= 2 : 3$
$= 2 : 6$

   $6 - 3 = 3$
   3units→15
   1unit→5
   8units→40

12)8 x 3 = 24
   24 ÷ 2 = 12 hours

13)25% → $18
   100% → $72
   $72 − $18 = $54
   $54 ÷ 2 = $27
   $27 → 40%
   $13.50 → 20%
   $40.50 → 60%
Ans: $40.50

14)$1.20 x 2 = $2.40
   $4 + $2.40 = $6.40
   $6.40 + $6 = $12.40
   $12.40 ÷ 2 = $6.20
   $20 ÷ $6.20 = 3.1
Ans: 3

15)M : W      B : G
    2 : 3      2 : 1

   2u+2p → 2420
   3u+1p → 3090
   1u − 1p → 670
   4u → 3760
   1u → 940
   5u → 4700

16)25 + 5 = 30
   30 ÷ 3 = 10
   10 x 4 = 40
   40 + 2 = 42
   42 ÷ 2 = 21
   21 x 3 = 63
   63 + 3 = 66
   66 x 2 = 132

17)$360

18)$500