# NANYANG PRIMARY SCHOOL
## SECOND CONTINUAL ASSESSMENT 2005
## MATHEMATICS
## PRIMARY FIVE

Name: _____(     )      Marks : _____ / 100

Class: Primary 5 (     )      Parent's Signature:

Date: 25 August 2005      _____

Duration: 2 h 15 min

## 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    $\frac{2}{5}$ h is equivalent to _____ minutes.

    (1)     12

    (2)     24

    (3)     30

    (4)     40

2    Express $\frac{195}{250}$ as a percentage.

    (1)     0.078%

    (2)     0.78%

    (3)     7.8%

    (4)     78%

1

3    What is the missing number in the box?

$5 \times 6 - \boxed{\phantom{0}} \times 3 = 18$

   (1)    16

   (2)    12

   (3)    6

   (4)    4

4    Mr Wong bought 800 packets of fruit juice at $0.78 per packet. How much did he pay altogether?

   (1)    $ 6.24

   (2)    $ 62.40

   (3)    $ 624

   (4)    $ 6240

5    Express 60 months as a percentage of 4 years.

   (1)    $6\frac{2}{3}\%$

   (2)    80%

   (3)    125%

   (4)    150%

2

6    Thalia's height is 132 cm. Her brother is 0.17 m taller. Find their total height.

  (1)    132.17 cm

  (2)    149 cm

  (3)    264.17 cm

  (4)    281 cm

7    Which of the following is the **best** estimate for 1264 ÷ 58?21

  (1)    1000 ÷ 60

  (2)    1000 ÷ 100

  (3)    1200 ÷ 50

  (4)    1200 ÷ 60

8    The ratio of the number of 10-cent to 20-cent to 50-cent coins in a piggy bank is  2 : 3 : 5. If there are eighty 20-cent and 50-cent coins altogether, how many 10-cent coins are there?
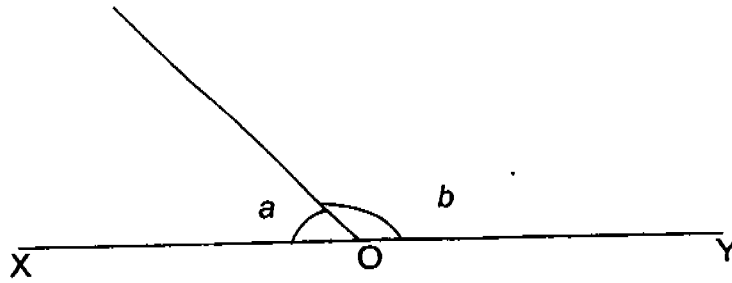
  (1)    10

  (2)    16

  (3)    20

  (4)    32

3

9   The table below shows the number of messages Paul sent using his mobile phone for the last three days.

| Day | Monday | Tuesday | Wednesday |
|---|---|---|---|
| No. of messages | 45 | 37 | 18 |

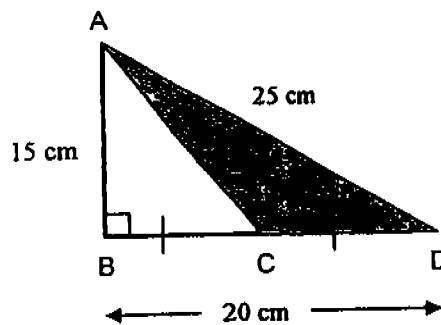What was the average number of messages Paul sent each day? Round off the answer to the nearest whole number.

(1)    27

(2)    30

(3)    33

(4)    34

10   The ratio of the number of men to children to women at a funfair is 2 : 13 : 5. What percentage of the people at the funfair are adults?

(1)    25%

(2)    35%

(3)    65%

(4)    90%

4

11    In the figure, not drawn to scale, XOY is a straight line. If ∠a is 38°
      smaller than ∠b, find ∠b.



      (1)    52°

      (2)    71°

      (3)    109°

      (4)    142°


12    In the figure below, BC = CD. Find the area of the shaded part.



      (1)    300 cm$^2$

      (2)    150 cm$^2$

      (3)    125 cm$^2$

      (4)    75 cm$^2$

5

13    Maggi shared $\frac{3}{4}$ of a pizza with 2 of her friends equally. What fraction of the pizza did each of them receive?

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

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

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

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

14    Sulin spent $\frac{3}{8}$ of her money and had $45 left. How much money did she have at first?

(1)    $72

(2)    $120

(3)    $135

(4)    $225

15    Divide the difference of 84.6 and 1.35 by 100.

(1)    0.8325

(2)    0.8335

(3)    8325

(4)    8335

6

Name: _____(        )        Class: Pr 5 (        )

**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 $16 + 6 \times 3 - 7 \times 2$.

Ans: _____

___

17    What is the missing number in the box?

$100 \times 15 - 420 = \boxed{\phantom{xxx}} \times 15$

Ans: _____

___

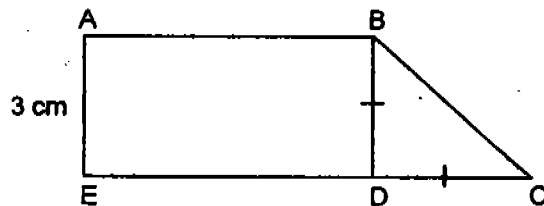18    What fraction of 1 litre is 16 $ml$?

Ans: _____

___

7

19 Find the value of $2\frac{3}{4} + \frac{2}{5}$.

Ans: _____

20 Find the value of $\frac{3}{7} \times 42$.

Ans: _____

21 The figure, ABCE, is made up of a rectangle and a triangle. AB is twice as long as AE and triangle BDC is an isosceles triangle. If AE is 3 cm long, find the area of the figure.
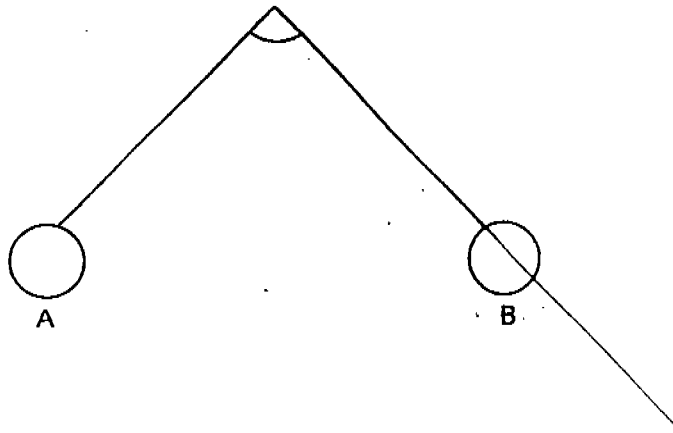


Ans: _____ cm$^2$

22 If A : B = 1 : 2 and B : C = 4 : 3, what is the ratio of A : C?

Ans: _____

23    The rate to rent a child's novelty pram to move around the shopping centre is $3.80 per hour or part thereof. How much did Mrs Ng pay if she rented a pram from 11.45 a.m. to 3.30 p.m.?

Ans: $_____

24    Measure the angle made by the pendulum as it swings from A to B.



A          B

Ans: _____ °

25    If 25% of a number is 64, what is $\frac{3}{8}$ of this number?

Ans: _____

9

Questions 26 to 35 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(20 marks)

26    Multiply 372 by 75.  Which digit is in the thousands place?

Ans: _____

27    Mrs Chan bought 17 bags of sweets for her class of 39 pupils. Each bag contained an equal number of sweets. If each pupil received 5 sweets and 9 sweets were left, how many sweets were there in each bag?

Ans: _____

28    A rectangular garden measures 84.2 m by 36 m. Find the area of the garden.

Ans: _____ m²

6 6

29   Mdm Wong used $2\frac{1}{4}$ m of cloth to make a dress. She used $\frac{5}{12}$ m less to make a blouse. How much cloth did she use altogether? Give your answer in the simplest form.

Ans: _____ m

30   Thomas took $\frac{7}{10}$ hour to travel from Town A to Town B by bus. He covered the same distance in half the time when he travelled by car. How long did the car journey take?
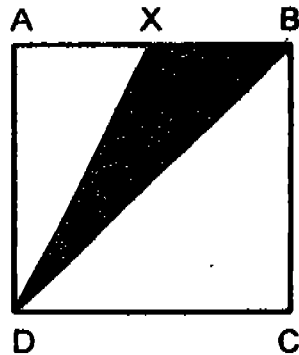
Ans: _____ min

31   Wei Jie ate 4 chocolates and 10 sweets. Min Han ate 6 chocolates and 6 sweets. What is the ratio of the total number of sweets to the total number of chocolates that were eaten by the 2 boys? Give your answer in the simplest form.

Ans: _____

11

61

32    A piece of red ribbon is 0.48 m long and a piece of blue ribbon is
      0.25 m long. Find the total length of 7 red ribbons and 7 blue ribbons.




Ans: _____ m

33    The diagram below shows a square ABCD.  X is the midpoint of AB.
      Express the shaded area as a percentage of the area of the whole
      figure.

A          X          B.
D                     C

Ans: _____ %

62

34    The table below shows the number of enrichment classes that some pupils attend in a week.

| Number of enrichment classes | 0 | 1 | 2 | 3 |
|---|---|---|---|---|
| Number of pupils | 3 | 8 | 3 | 6 |

Find the average number of enrichment classes the pupils attend in a week.

Ans: _____

35    Joyce is 5 years old now. Amy is 3 times as old as her. In how many years' time will Amy be twice as old as Joyce?

Ans: _____

Name: _____(     )          Class: Pr 5 (        )

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For questions 36 to 48, 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)

36    In a long-jump event, the average distance covered by 3 boys was 1.85 m while the average distance covered by 2 girls was 1.75 m. Find the average distance covered by the 5 children.
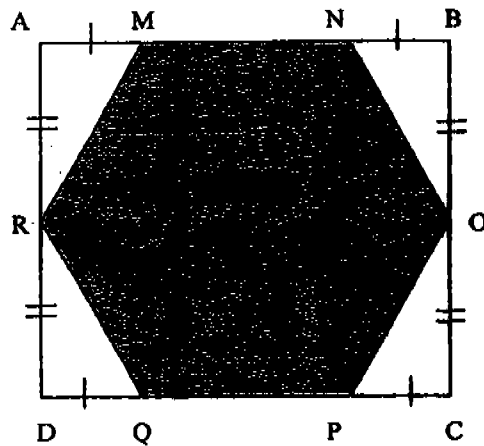
Ans: _____ [3]

37    Mr Fung gave a sum of 1.2 million dollars to his wife and 2 children. Each child received the same amount of money. His wife received thrice the amount each child received. How much did his wife receive?

Ans: _____ [3]

14

6ч

38    Sharifah spent $80 on some Children's Day gifts. Pencils are sold at 10 for $1.50 and erasers are sold at 20 for $5.00. She bought equal number of pencils and erasers. How many erasers did she buy?

Ans: _____ [3]

39    In the diagram below, ABCD is a square of side 25 cm. R and O are the mid-points of AD and BC respectively.
If AM = NB = PC = DQ = 5 cm, find the shaded area.



Ans: _____ [3]

15

40  Lucy and Siti shared 60 stickers in the ratio of 1 : 3. After Lucy had given some stickers to Siti, the ratio became 1 : 5. How many stickers did Lucy give Siti?

Ans:_____ [3]

41  In a game, Ali lost some of his marbles to Bernard and Bernard's marbles were tripled. Then, Charles won some marbles from Bernard and Charles' marbles were doubled. At the end of the game, Ali, Bernard and Charles had an equal number of marbles. If Ali had 84 marbles at first, how many marbles did the 3 boys have altogether?

Ans: _____ [3]

16

66

42    Mr Muthu wanted to top up his car to full tank with $60 worth of petrol. Petrol Kiosk A was offering a 12% discount while Petrol Kiosk B was offering a cash discount of $2 on top of a 10% discount.

(a)    Which petrol kiosk offered a better discount?
(b)    Find the difference between the discount offered by the 2 petrol kiosks.

Ans: (a)_____ [2]

(b)_____ [2]

17

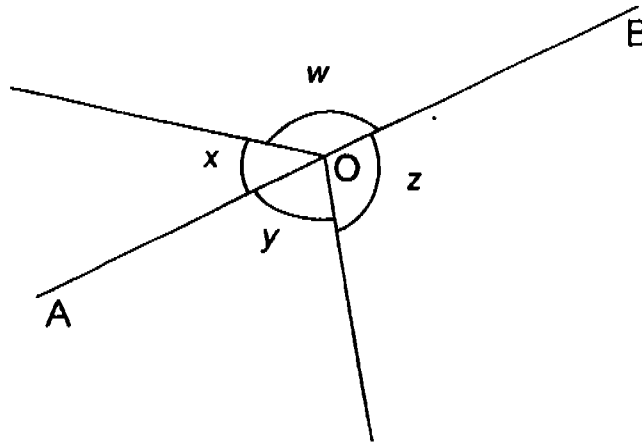43　The table below shows the subscription plan of a mobile phone provider, S1.

| Price Plan | S1 Value Plan |
|---|---|
| Monthly subscription | $47.20 |
| First 300 min of incoming or outgoing calls | FREE |
| Subsequent airtime rate | 16¢ per min |
| First 500 messages | FREE |
| Subsequent messages | 5¢ per message |

Meiling's mobile phone bill for the month of May reflected that her talktime was 415 min and the total bill was $72. How many messages did she send in May?

Ans: _____ [4]

68

44    In the diagram, not drawn to scale, AOB is a straight line.

$\angle x$ is $\dfrac{3}{4}$ of $\angle y$ and $\angle y$ is $\dfrac{2}{3}$ of $\angle z$. Find $\angle w$.



Ans: _____ [4]

45  There are 2 supervisors and a total of 10 operators and cleaners in a company

(a)  If there are $\frac{2}{3}$ as many operators as cleaners, what is the ratio of the number of supervisors to the number of operators?

(b)  A cleaner gets 70% of an operator's salary. A supervisor's salary is $1\frac{1}{2}$ times that of the operator. If the operator is paid $1000 a month, find the total salary of all the cleaners and supervisors.

Ans: (a) _____ [1]

(b) _____ [4]

20

70

46    A farmer has some ducks and chickens. $\frac{3}{8}$ of the number of ducks is equal to $\frac{1}{4}$ of the number of chickens.

(a)    If the farmer has 420 more chickens, how many ducks does he have?

(b)    If the farmer sold $\frac{1}{2}$ of his chickens and $\frac{2}{3}$ of his ducks, find the ratio of the number of chickens left to the number of ducks left. Give your answer in the simplest form.

Ans: (a) _____ [2]

(b) _____ [3]

47    Serene bought 3 fruits. The average mass of the durian and the watermelon is 2.7 kg. The average mass of the watermelon and the papaya is 2.54 kg. The average mass of the durian and the papaya is 1.98 kg. Find the mass of the papaya.

Ans: _____ [5]

72

48    Annabel spent 60% of her money on 12 concert tickets. She bought another 3 similar tickets and 10 similar DVDs with the remaining money.

(a) If all the concert tickets cost $540 more than the DVDs, find the cost of 1 DVD.

(b) If Annabel had spent all her money on the DVDs instead, how many more DVDs could she buy?

Ans: (a) _____ [3]

(b) _____ [2]

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**END OF PAPER**
Have you checked your answers?

</div>

Setters:    Mrs Shirley Lam
            Mrs Linda Tan

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7 3

# Nanyang Primary School

## Primary 5 Maths CA2 Exam (2005)

## Answer Sheets

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

16. 20
17. 72
18. $\dfrac{4}{250}$
19. $3\dfrac{3}{20}$
20. 18
21. 225
22. 2 : 3
23. 15.20
24. 88°
25. 96
26. 7
27. 12 sweets
28. 3031.2
29. $4\dfrac{1}{12}$
30. 21
31. 8 : 5
32. 5.11

33. 25
34. 1.6
35. 5 years' time
36. 1.81m
37. $720000
38. 200 erasers
39. 500cm²
40. 5 stickers
41. 126 marbles
42. a) Petrol Kiosk B     b)0.80¢
43. 628 messages
44. 126°
45. a) 1 : 2     b) $7200
46. a) 840 ducks     b) 9 : 4
47. 1.82kg
48. a) $27     b) 30 DVDs

74