NANYANG PRIMARY SCHOOL

FIRST SEMESTRAL EXAMINATION 2009

PRIMARY 5

MATHEMATICS

PAPER 1

DURATION: 50 MINUTES

Booklet A	/ 20	Paper 1 Total:
Booklet B	/ 20	/ 40

Name: _____ (   )

Class: Primary 5 (   )

Date: 15 May 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.

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   Jenny bought 7 kg of flour. She packed the flour equally into 4 packets.
     What was the mass of each packet of flour?

(1) $\frac{4}{11}$ kg

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

(3) $\frac{7}{11}$ kg

(4) $1\frac{3}{4}$ kg

2   Express $4\frac{5}{8}$ as a decimal correct to 2 decimal places.

(1)   4.58

(2)   4.60

(3)   4.62

(4)   4.63

3 What is the value of $\dfrac{5}{12} - \dfrac{1}{6} + \dfrac{1}{12}$?

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

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

(3) $\dfrac{5}{9}$

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

4 What is the missing fraction in the box?

$$6\dfrac{1}{3} - \boxed{\ ?\ } = 4\dfrac{4}{9}$$

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

(2) $1\dfrac{8}{9}$

(3) $2\dfrac{1}{9}$

(4) $2\dfrac{8}{9}$

5   Find the value of $\dfrac{5}{7} \times \dfrac{14}{3}$.

    (1) $\dfrac{15}{98}$

    (2) $\dfrac{10}{21}$

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

    (4) $6\dfrac{8}{15}$

6   Express 17 023 millilitres in litres.

    (1)   1.7023 litres

    (2)   17.023 litres

    (3)   17.230 litres

    (4)   170.23 litres

7　Ahmad was given 14 Spongebob stickers, 35 Mickey stickers and 56 Kitty stickers. What is the ratio of the number of Spongebob stickers to the number of Kitty stickers to the number of Mickey stickers?

(1)　2 : 5 : 8

(2)　2 : 7 : 6

(3)　2 : 8 : 5

(4)　14 : 5 : 8

8　The ratio of An Sen's age to Bing Heng's age to Can Xiang's age is 2 : 5 : 8. If Bing Heng is 15 years old, how old is An Sen?

(1)　4 years old

(2)　6 years old

(3)　16 years old

(4)　24 years old

9   There are 200 rubber balls in a basket.   The mass of each rubber ball is 0.076 kg.   What is the total mass of all the rubber balls in the basket?

   (1)   0.0152 kg

   (2)   0.152 kg

   (3)   1.52 kg

   (4)   15.2 kg

10   Aunt Sally bought $\frac{8}{9}$ kg of mutton.   She shared them equally with her three other siblings.   How many kilogrammes of mutton did each of them get?

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

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

   (3) $\frac{8}{27}$ kg

   (4) $\frac{9}{32}$ kg

11   Some orange syrup and water are mixed in the ratio of 7 : 15 respectively. The volume of the orange syrup is 105 *ml*. What is the difference in volume between the orange syrup and water?

(1)   120 *ml*

(2)   225 *ml*

(3)   330 *ml*

(4)   840 *ml*

12   Johnny used $2\frac{1}{6}$ litres of paint for his cabinet. His brother used four times as much paint as Johnny to paint his room. How much paint was used in all?

(1). $2\frac{5}{6}$ litres

(2) $6\frac{1}{2}$ litres

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

(4) $10\frac{5}{6}$ litres

13   At a candy shop, Ginny spent half of her money on candies.   She then spent $4 more than half of her remaining money at a snack store.   She had $8 left in the end.   How much money did Ginny have at first?

(1) $16

(2) $24

(3) $32

(4) $48

14   Daniel is 15 years old and his father is 3 times as old as him.   In how many years' time will their total age be 100 years old?

(1)   10 years
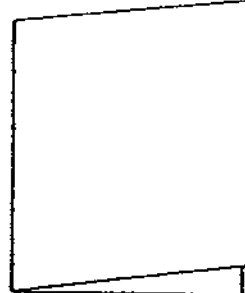
(2)   20 years

(3)   30 years

(4)   40 years

15 A piece of cardboard is 0.008 cm thick. The piece of cardboard is folded so that the folded piece is twice as thick after each fold. What is the **maximum** number of folds that can be made **before** the folded cardboard is thicker than 0.4 cm?

cardboard   After 1 fold

(1) 5

(2) 6

(3) 3

(4) 4

P5 SA1 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   Arrange the digits below to form the largest possible 6-digit number which gives an answer of 946 000 when rounded off to the nearest thousand.

$$\boxed{6} \quad \boxed{5} \quad \boxed{7} \quad \boxed{4} \quad \boxed{9} \quad \boxed{3}$$

Ans: _____

17   Estimate the product of 6532 and 7 by first rounding off the 4-digit number to the nearest hundred.

Ans: _____

9

18   Find the value of $8 \times 2 + 15 - (16 - 12) \div 2$

Ans: _____

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19   What is the missing number in the box below?

$$4 : \boxed{?} : 9 \qquad 48 : 60 : 108$$

Ans: _____

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20   What is the value of $\dfrac{3}{8} \times \dfrac{16}{39}$?

Express your answer in its simplest form.

Ans: _____

21 What is the missing fraction in the box?

$$\boxed{?} \div 4 = 2\frac{7}{8}$$

Ans: _____

---

22 The sum of two numbers, X and Y, is 90.4.   X is 9 times Y.
   What is Y?

Ans: _____

---

23 Samuel and Alex went for a jog. Samuel jogged for $2\frac{2}{5}$ km. He jogged

   $1\frac{3}{10}$ km more than Alex.   How far did Alex jog?

Ans: _____ km

24   Sam had $20 and Fatimah had five times as much as him.   Marilyn had twice the amount of what Sam and Fatimah had.   Find the ratio of the amount of money Fatimah had to the amount of money Marilyn had.

Ans: _____

25   Santhu had a total of 49 heart-shaped and star-shaped balloons for a party.   The number of heart-shaped balloons to the number of star-shaped balloons is in the ratio of 2 : 5.   How many star-shaped balloons did Santhu have?

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 1400 adult spectators at a sports meet. If 850 of the spectators are male, what is the ratio of the number of female spectators to the number of male spectators?
Express your answer in its simplest form.

Ans: _____

27 Ahmad cycled a total distance of 12.01 km on Monday and Tuesday. If he cycled 5.56 km on Monday, how many more **metres** did he cycle on Tuesday than on Monday?

Ans: _____ m

28   Sharon painted $\frac{1}{6}$ of a board red.   She painted $\frac{3}{4}$ of the remainder black.   If the board had an area of 72 cm^2, what was the area of the board that she had painted black?
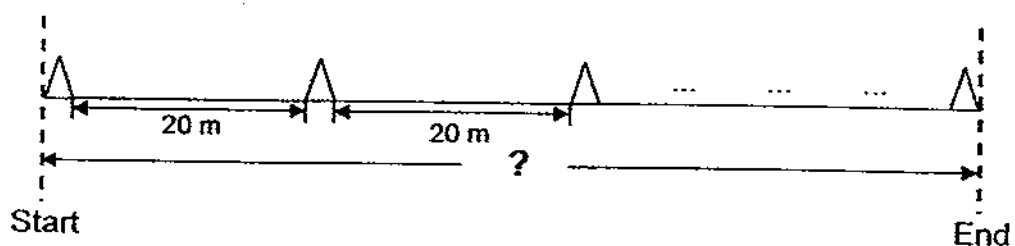
Ans: _____ cm^2

29   Azura wrote her name in the pattern shown below.   What was the letter in the 37th position?

A   Z   U   R   A   A   Z   U   R   A ... ? ...
1st 2nd 3rd 37th

Ans: _____

30 Mr Lim puts plastic cones from one end of a road to the other at equal distances apart. There are 40 plastic cones. The width of each cone is 0.3 m. The distance between 2 plastic cones is 20 m. Find the length of the road.

Ans: _____ m

END OF PAPER

Setters: Ms Mavis Tan
Mdm Serene Leong

NANYANG PRIMARY SCHOOL

FIRST SEMESTRAL EXAMINATION 2009

PRIMARY 5

MATHEMATICS

PAPER 2

DURATION: 1 HOUR 40 MINUTES

Paper 2 Total	/ 60

GRAND TOTAL	/ 100

Name: _____ (   )

Class: Primary 5 (   )

Date: 15 May 2009

Parent's Signature:_____

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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)

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1   Using the numbers listed below, fill in the missing numbers in the boxes to form equivalent ratios.
      (Each number can only be used once.)

| 16 | 48 | 39 | 12 | 13 |

Ans: ☐ : ☐ = ☐ : ☐

---

2   Dillion bought $2\frac{3}{4}$ m of cloth on Monday. He bought another $3\frac{1}{3}$ m on Tuesday. He used $4\frac{2}{3}$ m of cloth to make some curtains. How many metres of cloth had he left in the end?

Ans: _____ m

---

3   Find the missing number in the box below.

$$45 + (\boxed{?} - 20) \div 5 = 70$$

Ans: _____

---

4 $\dfrac{2}{7}$ of the coins in Raj's safe are local coins. The rest are foreign coins.

$\dfrac{2}{3}$ of the foreign coins are Australian coins. What fraction of the coins are **non-Australian foreign** coins?

Ans: _____

---

5   Mrs Tan bought 22 kg of flour. After she had packed them into 7 equal packets, she had 5 kg of flour left. What was the mass of flour in each packet? Express your answer as a decimal correct to 2 decimal places.

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   Mrs Lee bought a total of $8\frac{1}{4}$ m of yellow and green ribbon. There was $3\frac{3}{5}$ m of yellow ribbon.

(a) How many metres of green ribbon did she buy?

(b) She used the green ribbon to tie 5 identical gift boxes. If she had used 0.9 m of green ribbon to tie each gift box, how many metres of green ribbon were left?
Express your answer as a fraction in its simplest form.

Ans: (a) _____ [1]

      (b) _____ [2]

7   Ben was mixing some chemicals, A, B and C, together in a glass cylinder. He poured 0.286 litres of Chemical A into the glass cylinder. The amount of Chemical B added was twice as much as that of Chemical A. The amount of Chemical B added was four times that of Chemical C. How many litres of chemicals were there in the glass cylinder in the end?

Ans: _____ [3]

8   Molly and Dolly had the same number of cards at first. After Molly sold 685 of her cards, Dolly had six times as many cards as Molly. Subsequently, Dolly sold all of her cards. How much did Dolly earn if she bought the cards at $0.35 each and sold them at $0.85 each?

Ans: _____ [3]

9 Kelly had a piece of long plank. She used $\frac{3}{5}$ of it to make a bookshelf and $\frac{7}{8}$ of the remaining plank to make a flower pot stand. In the end, she had 23.9 cm of plank left. What was the original length of the plank?

Express your answer in metres.

Ans: _____[3]

10 Mary, Omar and Ailing shared $4590 among themselves. Omar and Ailing shared $\frac{4}{9}$ of the money **equally**. After Omar gave away some of his money to Mary, Ailing had 3 times as much money as Omar. How much money did Omar give to Mary?

Ans: _____[3]

11   Lily had some 20-cent, 50-cent and $1 coins. The total value of the coins was $24. $\frac{1}{3}$ of the coins were 20-cent coins and $\frac{2}{5}$ of the coins were 50-cent coins. What was the value of the $1 coins?

Ans: _____ [4]

12 Alice and Gillian had a total of $555. Alice spent $\frac{5}{6}$ of her money and Gillian spent $\frac{2}{9}$ of her money. In the end, the amount of money Gillian had left was 7 times the amount of money Alice had left.

(a) How much money did Alice spend?

(b) What was the total amount of money left?

Ans: (a) _____ [2]

(b) _____ [2]

13   The ratio of the number of pencils to the number of erasers in a box is 7 : 3. When 36 pencils are removed and 24 erasers are added, there is an equal number of pencils and erasers. How many pencils are there in the box in the end?

Ans: _____ [4]

14 A group of children bought some marbles to be shared among themselves.
    If each child were given 10 marbles, there would be 15 marbles left over.
    If each child were given 12 marbles, there would be 1 marble left over.

(a) How many children were there in the group?

(b) How many marbles did they buy?

Ans: (a) _____ [2]

      (b) _____ [2]

15   Joseph's monthly salary was $500 more than David's monthly salary. Every month, each of them spent $2100 and saved the rest of the money.   After some months, Joseph saved $16 800 and David only saved
$10 800.

(a)   How many months did Joseph take to save $16 800?

(b)   What were their total monthly salaries?

Ans: (a) _____ [2]

(b) _____ [2]

16   Gary and Jane shared the cost of a dinner in the ratio of 2 : 3.   Gary used half of his money to pay for his share.   After paying for her share, Jane had $84 left.   The ratio of the amount of money that Gary had at first to the amount of money Jane had at first was 3 : 4.   How much was the total bill for the dinner?

Ans: _____ [5]

17 Ravi had a total of 204 goldfish and swordtails in the ratio of 9 : 8. After she gave away an equal number of each type of fish, the number of goldfish and swordtails left was in the ratio of 9 : 5 respectively. What was the total number of fish that she had given away?

Ans: _____ [5]

18 Aifang, Bala and Cindy shared some sweets. Aifang received $\frac{1}{11}$ of the sweets. Bala received $\frac{1}{4}$ of the number of sweets Cindy received. When Cindy gave away 104 sweets to be shared between Aifang and Bala, they found that all of them had the same number of sweets. How many sweets were there at first?

Ans: _____ [5]

END OF PAPER

Setters: Ms Mavis Tan
Mdm Serene Leong

13

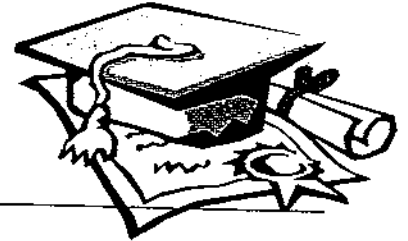**EXAM PAPER 2009**

SCHOOL : NANYANG PRIMARY
SUBJECT : PRIMARY 5 MATHEMATICS

TERM : SA1

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

16)946375   17)45500   18)29   19)5   20)2/13   21)11½

22)9.04   23)11/10   24)5:12   25)35   26)11:17   27)890

28)45cm²   29)Z   30)792m

Paper 2

1)16:13=48:39	2)15/12m

3)70-45=25
  25x5=125
  125+20=145
	4)5/21

5)22kg-5kg=17kg
  17kg ÷ 7 ≈ 2.43 kg
	6)a)413/20m
	  b)3/20m

7)0.286L÷2=0.143L
  7 units→0.143Lx7=1.001L
	8)5 units→685
	  1 unit→137
	  6 units→822
	  822x\$0.35=\$287.70—bought for
	  822x\$0.85=\$698.70—sold for
	  \$698.70-\$287.70=\$411

9)4.78m	10)1 unit→\$4590÷9=\$510
	  2 units→\$510x2=\$1020
	  1 unit→\$1020 ÷3=\$340
	  2 units→\$340x2=\$680

11)$12	12)a)$815 b)$296

13)3 units→+24=7 units-36
   4 units→36+24=60
   1 unit→60÷4=15
   7 units→15x7=105
   105-36=69
	14)7u→70
	   1u→10
	   7x2=14
	   14+70=84
	   84+1=85
	   Ans: a)7 b)84

15)a)$16800-$10800=$6000
   $6000÷$500=$12
   b)$16800÷12=$1400
   $1400+$2100=$3500
   $3500-$500=$3000
   $3500+$3000=$6500
	16)$180
	
	   16-9=7
	   1 unit→$84÷7=$12
	   6+9=15
	   15 units→15x$12=$180

17)1 unit→204 ÷68=3
   32-5=27
   36-9=27
   27+27=54
   54 units→3x54=162
	18)11÷3=32/3
	   1 unit→104÷13=8
	   33 units→8x33=264