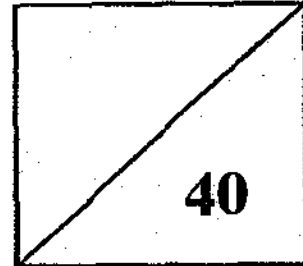


RULANG PRIMARY SCHOOL

A Gallery of Scholars, A Vibrant Community of Wholesome Individuals

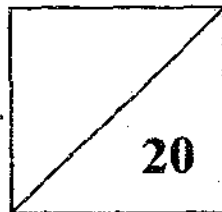
TOTAL MARKS
PAPER 1

Name : _____ ()
Level : Primary Six
Class : Primary 6 ____ (a.m.)
Date : 27 February 2009
Setter : Mr Ho Twee Lim



CONTINUAL ASSESSMENT 2009 MATHEMATICS

PAPER 1 BOOKLET A



TOTAL TIME FOR PAPER 1 (BOOKLETS A & B): 50 minutes
30 questions
40 marks

- **DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.**
- **READ ALL THE INSTRUCTIONS CAREFULLY.**
- **ANSWER ALL THE 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 these is the correct answer. Make your choice (1, 2, 3 or 4) and shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)

1. John is x kg. Victor is 3 times as heavy as John. What is Victor's mass?
 - (1) $(3 + x)$ kg
 - (2) $(3 - x)$ kg
 - (3) $(3x)$ kg
 - (4) $(\frac{x}{3})$ kg

2. Mary went shopping with $\$12x$. She bought a pair of shoes for $\$4x$. She also bought a dress that cost $\$2x$ less than the pair of shoes. How much had she left?
 - (1) $\$3x$
 - (2) $\$4x$
 - (3) $\$6x$
 - (4) $\$7x$

3. Express 0.34 as a percentage.
 - (1) 0.34%
 - (2) 3.4%
 - (3) 34%
 - (4) 340%

4. There are 40% more boys than girls at a concert. If there are 48 more boys than girls, how many girls are there?
 - (1) 8
 - (2) 24
 - (3) 120
 - (4) 288

5. 400 pupils were asked to choose their favourite sport. 10% of them chose badminton, 12% chose soccer, 26% chose basketball and the rest chose table tennis. How many pupils chose table tennis as their favourite sport?

- (1) 40
- (2) 104
- (3) 192
- (4) 208

6. A dictionary costs \$40. A story book costs 80% as much as the dictionary. How much does the story book cost?

- (1) \$9
- (2) \$10
- (3) \$30
- (4) \$32

7. The sizes of the angles of a triangle are in the ratio 3 : 4 : 8. If the sum of the 3 angles is 180° , what is the size of the largest angle?

- (1) 90°
- (2) 96°
- (3) 105°
- (4) 120°

8. There are tiger barbs and guppies in a fish tank. $\frac{6}{13}$ of the total number of fish are tiger barbs. What is the ratio of the number of guppies to the number of tiger barbs?

- (1) 6 : 7
- (2) 7 : 6
- (3) 6 : 13
- (4) 7 : 13

9. $86 \times \frac{1}{201} = \boxed{} \times \frac{20}{201} + \frac{6}{201}$. What is the missing number in the box?

(1) $\frac{3}{201}$

(2) $\frac{4}{201}$

(3) 3

(4) 4

10. Which one of the following fractions has the smallest value?

~~(1)~~ $\frac{5}{9}$

~~(2)~~ $\frac{7}{11}$

~~(3)~~ $\frac{3}{5}$

~~(4)~~ $\frac{4}{7}$

11. Divide $\frac{5}{8}$ by $\frac{5}{12}$. How many halves are there in the answer?

(1) 60

(2) 30

(3) 3

(4) 6

12. John is k years old. In 7 years' time, his father will be twice as old as he. How old will his father be, in terms of k in 7 years' time?

~~(1)~~ $2(k+7)$ years old

(2) $(2k+7)$ years old

~~(3)~~ $\frac{k+7}{2}$ years old

~~(4)~~ $\frac{2k+7}{2}$ years old

13. William had 25% more stickers than John at first. When John gave 30 stickers to William, he had half of what William had. How many stickers did John have at first?

- (1) 30
- (2) 60
- (3) 90
- (4) 120

14. The length of a rectangle is increased by 20% while its breadth is decreased by 10%. Express the area of the new rectangle as a percentage of the area of the original rectangle.

- (1) 54%
- (2) 108%
- (3) 118%
- (4) 120%

15. $\frac{1}{4}$ of the audience watching a concert were adults and the rest were children. $\frac{2}{3}$ of the adults were women. What was the ratio of the number of women to the number of children?

- (1) 1 : 3
- (2) 1 : 6
- (3) 2 : 3
- (4) 2 : 9

RULANG PRIMARY SCHOOL

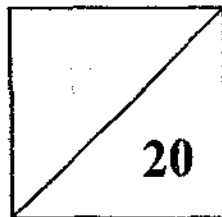
A Gallery of Scholars, A Vibrant Community of Wholesome Individuals

Established since 1930

Name : _____ ()
Level : Primary Six
Class : Primary 6 ___ (a.m.)
Date : 27 February 2009
Setter : Mr Ho Twee Lim

CONTINUAL ASSESSMENT 2009 MATHEMATICS

PAPER 1 BOOKLET B



TOTAL TIME FOR PAPER 1 (BOOKLETS A & B): 50 minutes
30 questions
40 marks

- DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.
- READ ALL THE INSTRUCTIONS CAREFULLY.
- ANSWER ALL THE QUESTIONS.
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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. Mrs Lee bought a melon for x cents and four apples for 90 cents. She paid the cashier \$10. How much change did she get? Express your answer in terms of x .

Ans: _____ cents

17. John is x years old. Jack is 4 years older than John. What is their total age in 12 years' time?

Ans: _____ years

18. What is the fraction exactly halfway between $\frac{5}{6}$ and $\frac{6}{7}$ in its simplest form?

Ans: _____

19. John has a rope measuring 410 cm. Peter's rope is $\frac{3}{4}$ m longer than John's rope. Find the length of Peter's rope.

Ans: _____ m

20. During a sale, Tom paid \$960 for a computer at a discount of a 20%. What was the price of the computer before the discount?

Ans: \$ _____

21. William saved 10% of his income every month. When his monthly income was increased by 10%, his savings became \$132. What was his original monthly income?

Ans: \$ _____

22. Express $\frac{3}{4}$ as a percentage.

Ans: _____ %

23. There were 8 Brownies and 5 Scouts on duty at a school sports day. How many percent fewer Scouts than Brownies were there?

Ans: _____ %

24. The mass of a table is $\frac{4}{5}$ of the mass of a cupboard. The mass of a chair is $\frac{1}{2}$ of the mass of the cupboard. Find the ratio of the mass of the table to the mass of the cupboard to the mass of the chair.

Ans: _____

25. The ratio of the height of a triangle to its base is 4 : 3. If the area of the triangle is 96 cm^2 , find its base.

Ans: _____ cm

Questions 26 to 30 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. (10 marks)

26. A group of 7 pupils spent an average amount of \$y on lunch. 5 of them spent an average amount of \$24 on the lunch. What was the average expenditure of the remaining pupils?

Ans: \$ _____

27. John is 36 years younger than his father. John will be $\frac{1}{3}$ of his father's age in 4 years' time. Find John's present age.

Ans: _____ years

28. There were 50 questions in a Mathematics test. Sam answered 85% of them correctly while Nicky answered 80% of them correctly. How many percent more questions did Sam answer correctly than Nicky?

Ans: _____ %

29. \$60x is divided between Tony and Joe in the ratio 1 : 2. How much does Joe get?

Ans: _____

30. If 6 similar robots can clean 40 rooms in 8 days, how many rooms can 12 such robots clean in 2 days?

Ans: _____

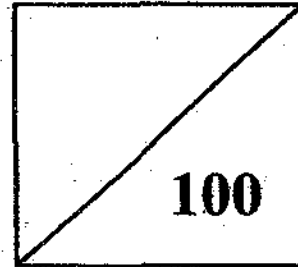
RULANG PRIMARY SCHOOL

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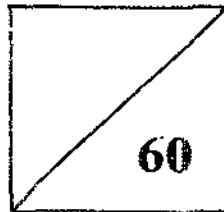
TOTAL MARKS
PAPER 1 & 2

Name : _____ ()
Level : Primary Six
Class : Primary 6 ____ (a.m.)
Date : 27 February 2009
Setter : Mr Ho Twee Lim



CONTINUAL ASSESSMENT 2009 MATHEMATICS

PAPER 2



TOTAL TIME FOR PAPER 2: 1 hour 40 minutes

18 questions

60 marks

- DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.
- READ ALL THE INSTRUCTIONS CAREFULLY.
- ANSWER ALL THE QUESTIONS.
- YOU ARE ALLOWED TO USE A CALCULATOR.

Questions 1 to 5 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. (10 marks)

1. Peter withdrew $\frac{1}{4}$ of his savings from the bank. He used $\frac{1}{5}$ of the money to buy a set of DVDs and had \$360 left. How much was his total savings in the bank at first?

Ans: \$ _____

2. When Tom spent $\frac{2}{5}$ of his money and Carol spent $\frac{2}{3}$ of her money, they had an equal amount of money left. Express the amount of money Tom had at first as a fraction of the amount of money Carol had at first.

Ans: _____

3. A concert hall has 600 seats. 25% of the seats are premier seats while the rest are standard seats. How many premier seats must be added so that the number of premier seats will be increased to 70%?

Ans: _____

4. A worker mixed sand and cement in the ratio 5 : 6. If each kg of sand cost \$2.50 and each kg of cement cost \$1.40, find the cost of 200 kg of such mixture.

Ans: \$ _____

5. The lengths of two rectangles are 11 m and 19 m respectively. Their total area is 321 m². What is the difference in their areas?

Ans: _____ m²

For Questions 6 to 18, show your working clearly in the space provided for each question and write your answers clearly in the spaces provided. The number of marks available is shown in the brackets [] at the end of each question or part-question. (50 marks)

6. In a library, 15% of the books are Tamil books, 60% of the remainder are Malay books and the rest are Chinese books. If there are 442 Chinese books, how many books are there in the library altogether?

Ans: _____ [3]

7. Jill and Tom had a collection of stickers each. Jill's collection was $\frac{3}{5}$ that of Tom's. If Tom gave Jill 171 stickers, his remaining stickers would be $\frac{7}{9}$ that of Jill's. How many stickers did Jill have at first?

Ans: _____ [3]

8. A truck was ferrying some workers to work. Along the way, $\frac{1}{5}$ of the workers got off at the 1st stop and 2 workers got on the truck. At the 2nd stop, $\frac{1}{3}$ of the workers got off and 6 workers got on the truck. If there were 26 workers on the truck then, how many workers were on the truck at first?

Ans: _____ [3]

9. John multiplies the month and the date on which he was born by 31 and 9 respectively. The sum of the two resulting products is 170. Find the month and the date when he was born.

Ans: _____ [3]

10. Class 5A has 44 pupils. 18 of them enjoy playing badminton. 13 of them enjoy playing soccer. 5 pupils enjoy both activities. How many pupils do not like either activity?

Ans: _____ [3]

11. John had $\$8y$ at first. After paying for 2 exercise books at $\$y$ each and 3 pens at $\$2$ each, he had just enough money to pay for 5 boxes of pencils.

(a) What was the price of each box of pencils in terms of y ?

(b) If $y = 3$, what was the cost of each box of pencils?

Ans: (a) _____ [2]

(b) _____ [2]

12. William, Joe and Kenny sold funfair tickets to raise funds. Each ticket was priced at \$12. William sold $\frac{1}{6}$ of the tickets. Joe and Kenny sold the remaining tickets in the ratio 1 : 2 respectively. Kenny sold 98 tickets more than William. How much money did they collect altogether?

Ans: _____ [4]

13. Mrs Tan had \$800 at first. 80% of her money consisted of \$5 notes and the rest were \$10 notes. After she spent some \$5 notes, the remaining \$5 notes was 60% of the money she had left. How much did Mrs Tan spend?

Ans: _____ [5]

14. There are 147 pages in a Science textbook. What is the total number of digits on all the pages of the textbook?

Ans: _____ [3]

15. A group of people went hunting. On the average, 6 people hunted 5 rabbits, 15 people hunted 2 deer and 10 people hunted 1 buffalo. The total number of animals hunted was 6 more than the total number of people who went hunting. How many people went hunting?

Ans: _____ [4]

16. In May, Amy withdrew $\frac{1}{3}$ of her savings from the bank. This amount was \$640. In June, she deposited $\frac{3}{4}$ of her salary into the bank and her savings became \$p.

(a) What was Amy's salary for the month of June, in terms of p?

(b) If $p = \$2852$, find Amy's salary for the month of June.

Ans: (a) _____ [3]

(b) _____ [2]

17. The number of adults who visited an exhibition was 600 more than the number of children on the first day. On the second day, the number of children who visited the exhibition increased by 30% and the number of adults decreased by 20%. Given that there were 2160 visitors on the second day, what was the ratio of the number of adults to the number of children who visited the exhibition on the first day?

Ans: _____ [5]

121

18. The ratio of the number of black beads to the number of red beads was 4 : 5. When half of the red beads were removed from the box, there were 117 beads left in the box.
- a) How many red beads were removed from the box?
 - b) How many beads were there at first?

Ans: a) _____ [2]

b) _____ [3]

ANSWER SHEET

EXAM PAPER 2009

SCHOOL : RULANG PRIMARY
SUBJECT : PRIMARY 6 MATHEMATICS

TERM : CA1

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

16)(910-x) 17)(2x+28) 18)71/84 19)4.85m 20)\$1200

21)\$1200 22)75% 23)37.55 24)8:10:5 25)12cm

26)\$(7y-120/2) 27)14 28)6.25% 29)\$140x 30)20rooms

Paper 2

1)\$1800 2)5/9 3)900 4)\$380 5)207 6)1300

7)342 8)35 9)12th February 10)18 pupils

11)a)\$(6y-6/5) b)\$2.40 12)\$3024 13)\$520 14)333

15)90 people 16)a)\$4(p-1280/3) b)\$2096 17)7:4

18)a)45 red beads b)162 beads

- END -
12/2