

CAT

AI TONG SCHOOL
PRIMARY 6 MATHEMATICS
CONTINUAL ASSESSMENT 1 (2004)

Name: _____ () Marks: _____ /100

Class: Primary 6 () Date: 1 March 2004

Parent's Signature: _____

Booklet A

Questions 1 to 5 carry 1 mark each. Questions 6 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 correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.
(25 marks)

1. Solve $(169 \div 13) + 12 - 4$

- 1) 25
- 2) 21
- 3) 13
- 4) 4

2. Which one of the following fractions is greater than $\frac{4}{7}$?

- 1) $\frac{1}{2}$
- 2) $\frac{5}{8}$
- 3) $\frac{2}{5}$
- 4) $\frac{4}{9}$

3. Which one of the following has 5 in its hundredths place?

- 1) 17.54
- 2) 21.05
- 3) 65.12
- 4) 518.63

4. Andy, Ben and Calvin share 128 sweets in the ratio of 1 : 3 : 4. How many sweets did Ben get?
- 1) 64
 - 2) 48
 - 3) 30
 - 4) 16
5. 28 out of a class of 40 pupils are girls. What percentage of the class are boys?
- 1) 30%
 - 2) 56%
 - 3) 68%
 - 4) 70%
6. What is the last digit in the product of
- $$11 \times 12 \times 13 \times 14 \times 15 ?$$
- 1) 0
 - 2) 4
 - 3) 5
 - 4) 6
7. Express 36 seconds as a ratio of 1 hour.
- 1) 1 : 100
 - 2) 3 : 5
 - 3) 9 : 25
 - 4) 1 : 10

8. 2 taps were used to fill a tub with water. Tap A can fill the tub in 8 min. Tap B can fill it up in 6 min. If both taps were turned on at the same time to fill the tub, how long will it take to fill up the tub?
- 1) 14 min
 - 2) 7 min
 - 3) $3\frac{3}{7}$ min
 - 4) $\frac{7}{24}$ min
9. A tin of paint weighs 3.8 kg when full and only 2.65 kg when $\frac{2}{3}$ full. What is the weight of the empty tin?
- 1) 0.35 kg
 - 2) 1.15 kg
 - 3) 3.45 kg
 - 4) 19.35 kg
10. Sebastian has \$ 147. Shawn has \$ 49 more than Sebastian. What is the ratio of Shawn's money to Sebastian's money?
- 1) 1 : 3
 - 2) 3 : 1
 - 3) 3 : 4
 - 4) 4 : 3
11. The average weight of 3 parcels is 12.3kg. If the total weight of 2 parcels is 36kg, what is the weight of the third parcel?
- 1) 36.9 kg
 - 2) 23.7 kg
 - 3) 11.4 kg
 - 4) 0.9 kg

12. The ratio of the length of a rectangle to its breadth is 4 : 3 . If the perimeter of this rectangle is 28cm. What is its area?
- 1) 28 cm²
 - 2) 48 cm²
 - 3) 192 cm²
 - 4) 588 cm²
13. 18 pieces of cloth, each 3 m long, were cut from a whole roll. These made up 40% of the length of the whole roll of cloth. What is the total length of cloth in the roll?
- 1) 15 m
 - 2) 45 m
 - 3) 135 m
 - 4) 270 m
14. Mrs Lee baked some cookies. She gave 30% of them to her colleagues and her son ate 50% of the remaining cookies. If she had 42 cookies left, how many cookies did she bake?
- 1) 60
 - 2) 84
 - 3) 120
 - 4) 210
15. Each side of a cubic tank is 6 m long.
It is $\frac{3}{4}$ filled with water. If 90% of the water flows out from the tank, what is the volume of water left in the tank?
- 1) 5.4 m³
 - 2) 16.2 m³
 - 3) 48.6 m³
 - 4) 145.8 m³

Name: _____

Class: Primary 6 ()

Booklet B

Questions 16 to 35 carry 1 mark each. Write your answer in the spaces provided. Give your answer in the units stated.

(20 marks)

16. What is the sum of the first 4 multiples of 11?

Answer: _____

17. What is 437 less than 9000?

Answer: _____

18. In 9 483 004, the digit '8' is in the _____ place.

Answer: _____

19. A glass is $\frac{5}{8}$ filled with tea. If 120 ml more is needed to fill it to the brim, how much tea can the glass hold?

Answer: _____ ml

20. A shelf was $\frac{4}{5}$ packed with books of the same thickness. Louis had to put in 3 more books to make it completely full. How many books could the shelf hold?

Answer: _____

21. In $87.493 \times \square = 8749.3$, what is the missing number in the box?

Answer: _____

22. Mrs Lee took $\frac{2}{5}$ of her savings to go shopping. She spent \$350 and had \$70 left. What was her savings?

Answer: \$ _____

23. X is midway between $\frac{2}{5}$ and $\frac{2}{3}$, Y is midway between X and $\frac{2}{3}$.
What is the value of Y? Give your answer in the lowest term.

Answer: _____

24. Simplify $\frac{8}{9} \div \frac{2}{3}$ and give your answer as a mixed number.

Answer: _____

25. In a class of 40 pupils, $\frac{3}{5}$ of them are boys. $\frac{1}{3}$ of the boys are wearing spectacles. How many boys in the class are wearing spectacles?

Answer: _____

26. A string is cut into 2 pieces in the ratio of 4 : 3. What fraction of the length of the original string is the length of the shorter piece?

Answer: _____

27. The ratio of Ramli's money to Muthu's money is 5 : 3. After Ramli spent $\frac{1}{3}$ of his money, he still had \$7 more than Muthu. How much did Muthu have?

Answer: \$ _____

28. Amy has 12 beads. Brenda has 10 beads more than Amy. What is the ratio of Amy's beads to Brenda's beads?

Answer: _____

29. Peter and Mark shared some money in the ratio 2 : 5. Peter spent half of his money and had \$3 left. How much was Mark's share?

Answer: \$ _____

30. The ratio of Joel's stamps to Nicholas' stamps is 5 : 4. After Joel bought another 22 stamps, the ratio became 4 : 1. How many stamps did Joel have at first?

Answer: _____

31. Miss Ong's present salary is \$800. If she receives an increase of 20%, what will be her new salary?

Answer: \$ _____

32. Express $7\frac{1}{2}\%$ as a fraction in its simplest form.

Answer: _____

33. A tourist paid \$840 for a camera. This is inclusive of 5% GST. At the airport, he claimed back his GST. How much was he able to get back?

Answer: \$ _____

34. Jin Yu used 60% of his money to buy a pair of shoes and the remainder to buy a watch for \$80. How much was his ^{savings?} ~~money~~ money?

Answer: \$ _____

35. Ben and Ian have \$960 altogether. Ian has 40% more money than Ben. How much money does Ian have?

Answer: \$ _____

For questions 36 to 50, show your working clearly in the spaces below 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.

(55 marks)

36. The product of 2 numbers is 4324. If one number is 23, what is the other number?

Answer: _____ [2]

37. Ali spent $\frac{2}{5}$ of his pocket money on a book. He spent $\frac{1}{6}$ of the remaining amount to buy some stickers. If he spent \$3 on stickers, how much was his pocket money?

Answer: _____ [2]

38. At an exhibition, the ratio of the number of women to the number of children is 6 : 5. If there are 42 women, how many children are there?

Answer: _____ [2]

39. The average Mathematics mark for 15 girls and 25 boys in a class is 85. If the average mark for the girls is 80, what is the ratio of the total marks of the girls to the total marks of the children?

40. If Swee Heng purchased 6 kg of rice, he had \$5 extra. If he purchased 8 kg of the same type of rice, he was short of \$13. How much money did he have?

Answer: _____ [3]

41. Mrs Lee bought 20 kg of flour for \$40.80 when she was given a discount of 15%. What was the original price of the flour per kg?

Answer: _____ [3]

42. Gina, David and Henry shared some marbles. Gina received 25% of the marbles. The rest of the marbles were divided between David and Henry in the ratio of 7 : 5. If David received 72 marbles more than Gina, what was the total number of marbles?

Answer: _____ [4]

43. 5 oranges and 4 pears cost \$3.10. 4 pears and 3 apples cost \$2.50. If an apple costs as much as an orange, how much does 1 pear cost?

Answer

[4]

44. Tap A took 3 min to fill up a tank. Tap B took 4 min to fill up the same tank. However, if you pulled out the plug at the bottom of the tank, the tank could be emptied in 12 min. If both the taps are turned on and the plug pulled out at the same time, how long would it take for the tank to be filled up?

Answer: _____ [4]

45. A fruit seller had 480 apples and oranges for sale. 30% of them were apples and the rest were oranges. He then bought some more apples so that the percentage of the apples increased to 40%. How many more apples did he buy?

Answer: _____ [4]

46. Last year, there were 200 girls in Primary 6 in a certain school. There were 80 more boys than girls in Primary 6. This year, the number of girls increased by 20% while the number of boys decreased by a certain percentage. As a result, there were 30 more girls. What percentage did the number of boys decrease?

Answer: _____ [4]

47. Denise and Jeanette went shopping with a total of \$380. After buying some items each, the amount Denise has left is 4 times the amount she spent and the amount Jeanette has left is thrice the amount she spent. The two friends had a total of \$296 left. How much did Denise have at first?

Answer: _____ [5]

48. A train had a number of passengers when it left Terminal A.
At Station B, $\frac{2}{5}$ of them got off and 80 passengers got on.
At Station C, ~~23~~ passengers got off and ~~38~~ got on.
The train then had $\frac{3}{8}$ of the number of passengers when it left Station B.
- a) How many passengers were in the train when it left Station C?
 - b) How many passengers were in the train when it left Terminal A?

Answer: a) _____ [2]

b) _____ [3]

49. In Factory X, the ratio of male workers to female workers is 5 : 4. In Factory Y, the ratio of male workers to female workers is 2 : 7. Factory X has twice as many workers as Factory Y.

(a) Find the ratio of the number of male workers in Factory X to the number of male workers in Factory Y.

Answer: a) _____ [2]

(b) After 10 female workers leave Factory X to join Factory Y, the ratio of male workers to female workers in Factory Y becomes 4 : 15. How many female workers are there in Factory Y now?

Answer: b) _____ [3]

50. A fruit seller placed 2 kinds of fruits in a box.
70% of the fruits in the box were apples.

The remaining 27 fruits were oranges. He sold $\frac{2}{3}$ of the apples in the morning and $\frac{2}{3}$ of the fruits that remained in the afternoon.
How many fruits were left over?

Answer: _____ [5]

END OF PAPER

+ Please check your work carefully +

AI TONG SCHOOL
PRIMARY 6 MATHEMATICS
CONTINUAL ASSESSMENT 1 (2004)

CAT

- | | |
|---------------------|-----------------------|
| 1) 2 | 27) 63 |
| 2) 2 | 28) 6 : 11 |
| 3) 2 | 29) 15 |
| 4) 2 | 30) 10 stamps |
| 5) 1 | 31) 960 |
| 6) 1 | 32) $3/40$ |
| 7) 1 | 33) \$ 40 |
| 8) 3 | 34) 200 |
| 9) 1 | 35) 560 |
| 10) 4 | 36) 188 |
| 11) 4 | 37) \$ 30 |
| 12) 2 | 38) 35 children |
| 13) 3 | 39) 6 : 17 |
| 14) 3 | 40) \$ 59 |
| 15) 2 | 41) \$ 2.40 |
| 16) 110 | 42) 384 marbles |
| 17) 8563 | 43) \$ 0.40 |
| 18) ten thousandth | 44) 2 min |
| 19) 320 | 45) 80 apples |
| 20) 15 books | 46) 25% |
| 21) 100 | 47) \$ 220 |
| 22) 1050 | 48) a) 111 passengers |
| 23) $3/5$ | b) 360 passengers |
| 24) $1 \frac{1}{3}$ | 49) a) 5 : 1 |
| 25) 8 boys | b) 150 workers |
| 26) $3/7$ | 50) 16 fruits |