



SAI

# AI TONG SCHOOL

2005

SEMESTRAL ASSESSMENT 1

PRIMARY FIVE

MATHEMATICS

DURATION : 2 HR 15 MIN

DATE: 10 MAY 2005

## INSTRUCTIONS

Do not open the booklet until you are told to do so.

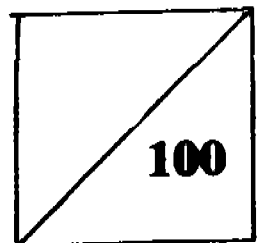
Follow all instructions.

Answer all questions.

Name : \_\_\_\_\_ ( )

Class : Primary \_\_\_\_\_

Marks:



Parent's Signature	: _____
Date	: _____

**Booklet A (20 Marks)**

**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.**

1. The value of the digit 5 in the number ~~5~~ 123 is \_\_\_\_\_.

(1)  $5 \times 100$

(2)  $5 \times 1\,000$

(3)  $5 \times 10\,000$

(4)  $5 \times 100\,000$

2. What must be added to 989 990 to make one million?

(1) 10

(2) 101

(3) 1 001

(4) 10 010

3. Find the value of  $4 \times 5 + 1 - 3 \div 3$ .

(1) 11

(2) 18

(3) 20

(4) 21

4.  $12 \times 10 = 8 \times 10 + \square \times 10$ .

(1) 4

(2) 5

(3) 6

(4) 7

5. Which of the following fractions has the greatest value?

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

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

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

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

6. How many  $\frac{1}{3}$ s are there in  $6\frac{2}{3}$ ?

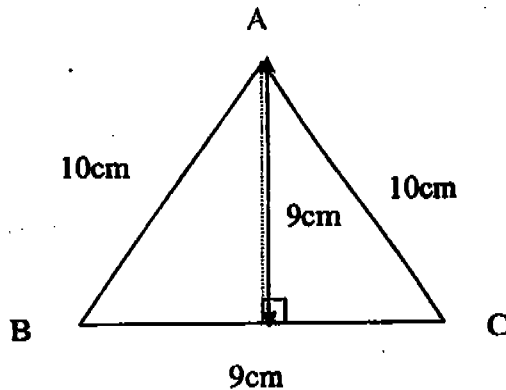
(1) 6

(2) 12

(3) 14

(4) 20

7. The following triangle is not drawn to scale. Find the area of the triangle.



- (1)  $18.5 \text{ cm}^2$                       (2)  $29 \text{ cm}^2$   
(3)  $40.5 \text{ cm}^2$                       (4)  $80 \text{ cm}^2$

8. Which of the following is the simplest form of  $20 : 24 : 16$  ?

- (1)  $5 : 6 : 4$                       (2)  $4 : 5 : 3$   
(3)  $7 : 8 : 5$                       (4)  $10 : 12 : 8$

9. Find the product  $\frac{3}{4}$  and  $\frac{2}{5}$ .

- (1)  $\frac{3}{10}$                               (2)  $\frac{10}{3}$   
(3)  $\frac{5}{9}$                               (4)  $\frac{7}{4}$

10. A bag of marbles is  $4\frac{2}{3}$  kg. Find the mass of 5 bags of marbles.

- (1)  $9\frac{2}{3}$  kg                          (2)  $20\frac{1}{3}$  kg  
(3)  $20\frac{2}{3}$  kg                          (4)  $23\frac{1}{3}$  kg

11. The smallest 5-digit even number that can be formed from the digits 2, 7, 3, 0 and 1 is \_\_\_\_\_.

- (1) 10 237                          (2) 10 327  
(3) 10 372                          (4) 10 732

12. In the product of 5 319 and 1 000, the digit that is in the ten thousands place is \_\_\_\_\_.

- (1) 1
- (3) 5

- (2) 3
- (4) 9

13. If 4 packets of flour cost \$14, how many packets of flour can Peter buy with \$22?

- (1) 3
- (3) 5

- (2) 4
- (4) 6

14. Mary and Joe have 56 stickers. Mary has thrice as many as Joe. How many stickers does Joe have?

- (1) 12
- (3) 28

- (2) 14
- (4) 42

15.  $\frac{5}{6}$  of  is equal to 30. What is the missing number in the box?

- (1) 6
- (3) 36

- (2) 25
- (4) 42

Name : \_\_\_\_\_ ( )

Class : Primary 5 \_\_\_\_\_

**Booklet B (30 Marks)**

**Questions 16 to 25 carry 1 mark each.**

**Questions 26 to 35 carry 2 marks each.**

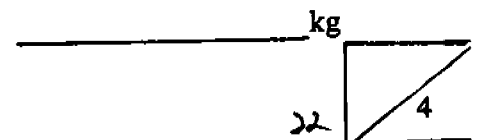
Show your working clearly in the space below each question and write your answers on the blanks provided. For questions which require units, give your answers in the units stated.

16. Express 21 678 to the nearest ten thousands. \_\_\_\_\_

17. When a certain number is divided by 14, its quotient is 5. What is the number?  
\_\_\_\_\_

18. Evaluate  $36 \div 6 \times 3 - 4 \div 2 =$  \_\_\_\_\_  
\_\_\_\_\_

19. Mr. Chan bought  $\frac{3}{4}$  kg of pork and cooked  $\frac{1}{8}$  kg of it. How much was left?



20. Evaluate  $\frac{2}{3} + 22$ .

\_\_\_\_\_

21. Convert  $4\frac{3}{5}$  m to cm.

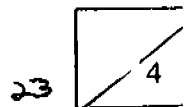
\_\_\_\_\_ cm

22. Mr Lee gave \$56 to Sally and \$28 to Paul. Find the ratio of Sally's share to Paul's share. Express your answer in the simplest form.

\_\_\_\_\_

23. What is the area of a square of side  $\frac{3}{7}$  m?

\_\_\_\_\_ m<sup>2</sup>



24. Express  $19 \div 8$  as a mixed number.

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25. Express 45 s as a fraction of 1 minute.

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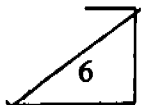
26. Find the sum of  $11 + 12 + 13 + 14 + 15 + 16 + 17 + 18 + 19 + 20$ .

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27. Jack and Grace have the same number of sweets. When Jack gave 6 sweets to Grace, she has 60 sweets. How many sweets does Jack have left?

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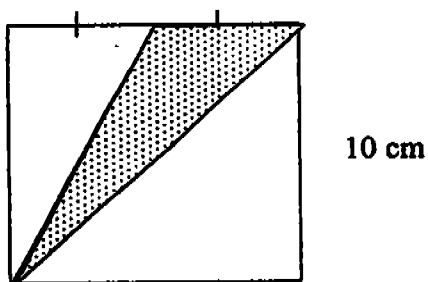
sweets



28. For every large packet of 50 biscuits purchased, a customer gets another smaller packet of 5 biscuits free. How many large packets of biscuits must a customer buy if he wants a total of 165 biscuits?

\_\_\_\_\_

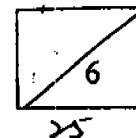
29. Find the shaded area of the square.



\_\_\_\_\_ cm<sup>2</sup>

30. If  $\frac{2}{7}$  of a number is 10,  $\frac{1}{5}$  of the number is \_\_\_\_\_.

\_\_\_\_\_

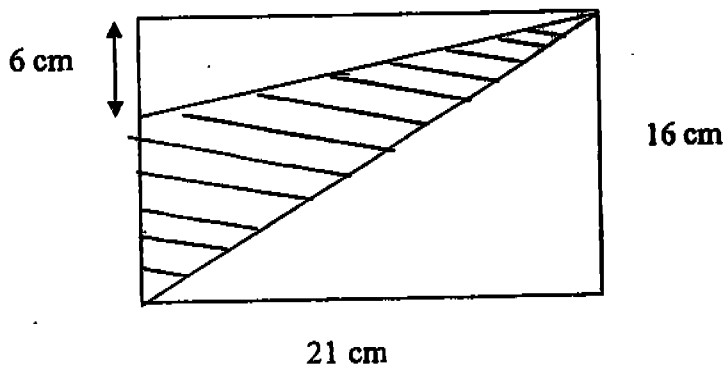




31. Mrs Tan had  $\frac{3}{4}$  litres of cooking oil. She used  $\frac{2}{3}$  of the oil to fry fish. How many litres of oil were left?

\_\_\_\_\_ litres

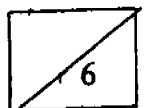
32. Find the shaded area of the rectangle.



\_\_\_\_\_ cm<sup>2</sup>

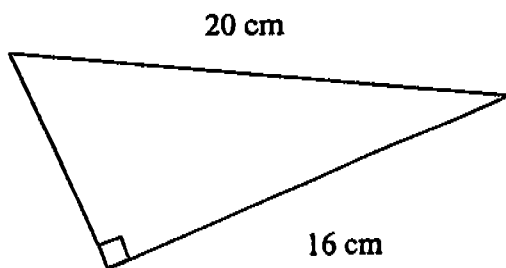
33. A machine can seal 1000 envelopes in  $\frac{1}{6}$  h. At this rate, how long will it take to seal 4800 envelopes?

\_\_\_\_\_ min

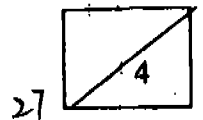


34.  $\frac{2}{3}$  of Yue Ling's books equals to  $\frac{1}{5}$  of Caleb's. Express Yue Ling's books as a ratio of Caleb's.

35. The perimeter of the triangle in the diagram is 48 cm. Find the area of the triangle.



\_\_\_\_\_ cm<sup>2</sup>



**SECTION C (50 MARKS)**

**For questions 36 to 48, show your working clearly in the space below each question and write your answers in the spaces provided.**

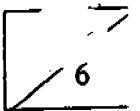
**The number of marks awarded is shown in brackets ( ) at the end of each question.**

36. Linda bought 2 shirts and 1 skirt for \$56. Sally bought 1 similar shirt for \$24. How much did Linda pay for 1 skirt?

Answer \_\_\_\_\_ (3)

37. Karen earns \$4 for every 20 packs of cards sold. How much will she earn for 100 packs of cards sold?

Answer \_\_\_\_\_ (3)

28 

38. String A is  $2\frac{1}{4}$  m and string B is  $3\frac{7}{8}$  m.

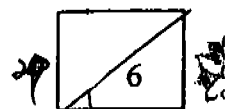
- (a) Which string is longer?  
(b) How much longer?

Answer a) \_\_\_\_\_ (1)

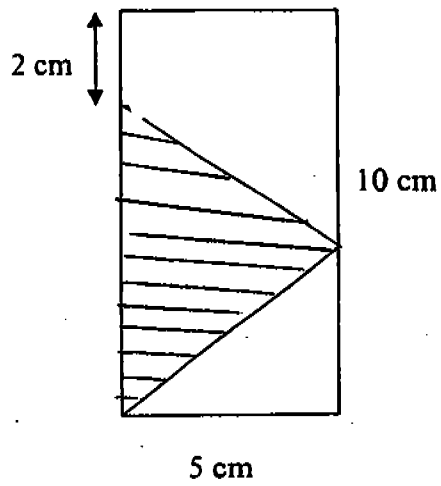
b) \_\_\_\_\_ (2)

39. Jerry, Bala and Kelly share a packet of sweets in the ratio 4 : 5 : 8. If the total of Jerry and Bala is 14 more sweets than Kelly, how many sweets are there in the packet at first?

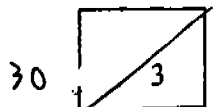
Answer \_\_\_\_\_ (3)



40. Find the area of the shaded figure.



Answer \_\_\_\_\_ (3)

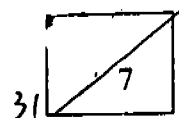


41. The perimeter of a square is  $\frac{24}{3}$  m. What is the area of the square?

Answer \_\_\_\_\_ (3)

42. Thrice a number is greater than  $\frac{2}{3}$  the number by 49. Find the number.

Answer \_\_\_\_\_ (4)

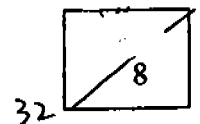


43. Jackie sold 20 calculators at \$5 each and earned \$40. What is the cost price of each calculator?

Answer \_\_\_\_\_ (4)

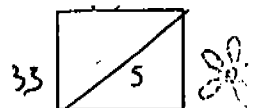
44. There are two tins of biscuits, Y and Z. The ratio of the mass of Y to the mass of Z is 4 : 1. If 26 g of biscuits is transferred from Y to Z, the ratio of the mass of Y to the mass of Z is 7 : 5. Find the total mass of the 2 tins of biscuits.

Answer \_\_\_\_\_ (4)



45. Jacob spent  $\frac{1}{6}$  of his money on a pair of shoes and spent  $\frac{1}{3}$  of the remainder on a watch. If he had \$400 left, how much money had he at first?

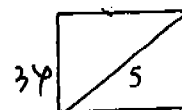
Answer \_\_\_\_\_ (5)





46. There were 30 pupils in a class. 15 of them brought blue pens and 10 brought black pens. 9 of them brought both colour pens. How many pupils did not bring any pens?

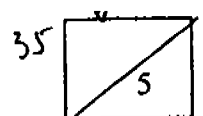
Answer \_\_\_\_\_ (5)



47. The ratio of the number of boys to the number of girls to the number of (teachers) in Ace Primary School is  $39 : 26 : 2$ . If there are 52 teachers in the school,
- (a) find the number of boys in the school.
  - (b) find the total number of pupils and teachers in the school.

Answer (a) \_\_\_\_\_ (2)

(b) \_\_\_\_\_ (3)



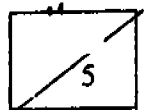
48. Jenson travelled  $\frac{1}{4}$  of a journey by bus,  $\frac{5}{9}$  of the remainder by the MRT and the remaining 8 km on foot.

(a) How far did Jenson travel by the MRT?

(b) What was the total distance of his journey?

Answer (a) \_\_\_\_\_ (3)

(b) \_\_\_\_\_ (2)



**End of paper**

Ai Tong Primary School  
Primary 5 Maths SA1 Exam (2005)

*Exam 100*

**Answer Sheets**

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

16. 20000

17. 70

18. 16

19.  $\frac{5}{8}$

20.  $\frac{1}{33}$

21. 460

22. 2 : 1

23.  $\frac{9}{49}$

24.  $2\frac{3}{8}$

25.  $\frac{3}{4}$

26. 155

27. 48

28. 3

29. 25

30. 7

31.  $\frac{1}{4}$

32. 105

33. 48

34. 3 : 10

35. 96

36. \$8

37. \$20

38. a) String B

b)  $1\frac{5}{8}$  m

39. 126 sweets

40. 20cm<sup>2</sup>

41.  $\frac{1}{36}$  m<sup>2</sup>

42. 21

43. \$3

44. 120g

45. \$720

46. 14

47. a) 1014

b) 1724

48. a) 10km

b) 24km