

SA2



# AI TONG SCHOOL

## 2005 SEMESTRAL ASSESSMENT 2

### PRIMARY 5 MATHEMATICS

**DURATION 2 HR 15 MINS**

**DATE: 26 OCTOBER**

### INSTRUCTIONS

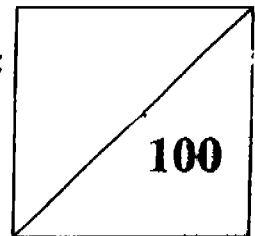
**Do not open the booklet until you are told to do so.**

**Follow all instructions.**

**Answer all questions.**

Name : \_\_\_\_\_ 28)

Marks :



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

Parent's Signature : \_\_\_\_\_

Date : \_\_\_\_\_

**Booklet A (20marks)**

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.  $845\,742 = 800\,000 + \underline{\hspace{2cm}} + 700 + 42$ . The missing number is

(1) 5 000

(2) 40 000

(3) 45 000

(4) 50 000

2. In 679 501, which digit is in the **thousands** place.

(1) 1

(2) 5

(3) 7

(4) 9

3. 40 hundreds is more than 60 tens by                     .

~~4000~~

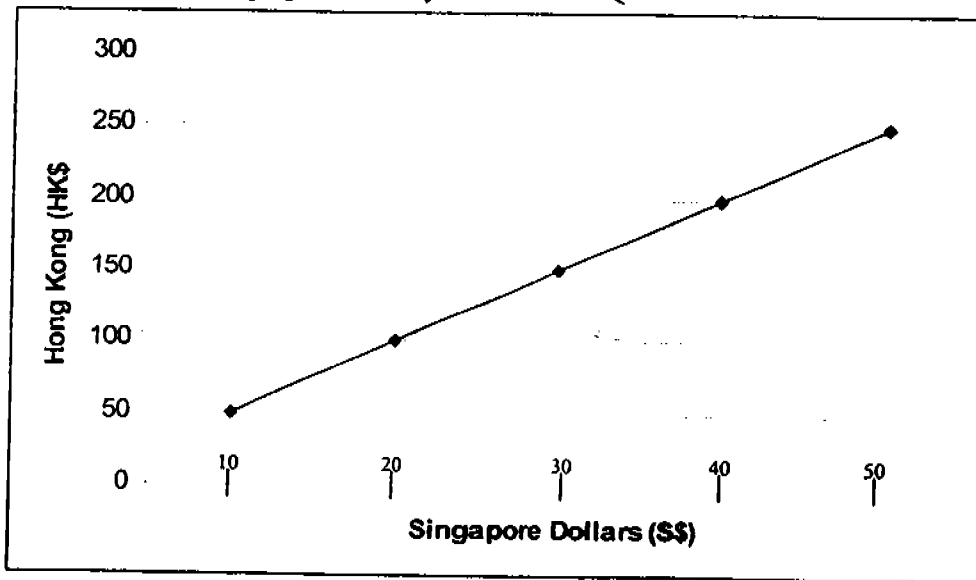
(1) 100

(2) 340

(3) 3400

(4) 3940

The following graph shows the exchange rate between Hong Kong dollars and Singapore dollars. Study the graph carefully and answer Question 4.



4. The amount of Singapore dollars that can be exchanged for HK\$200 is                     .

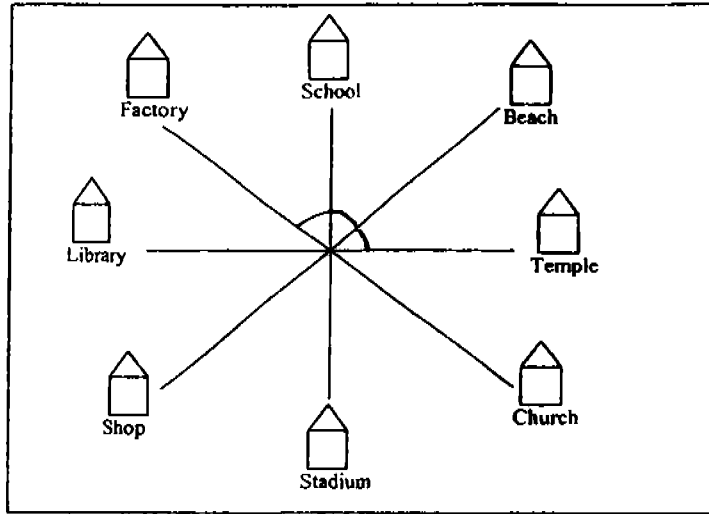
(1) 20

(2) 30

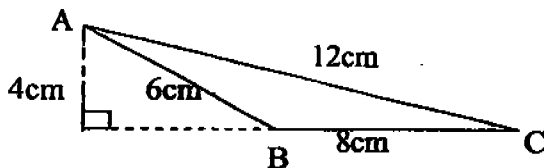
(3) 40

(4) 50

5. John was facing the temple. He turned  $135^\circ$  anticlockwise. What will he be facing now?

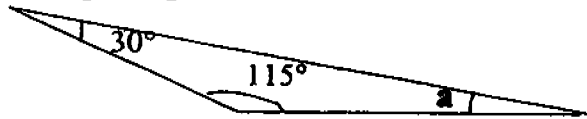


- (1) Factory  
(2) Shop  
(3) Church  
(4) Library
6. How many eighths are there in  $5\frac{1}{2}$ ?
- (1) 1  
(2) 8  
(3) 11  
(4) 44
7. Find the value of  $72 \times 0.02$ .
- (1) 1.44  
(2) 14.4  
(3) 144  
(4) 1440
8. Kenny is paid \$270 for 6 days work, how much is he paid per day?
- (1) \$35  
(2) \$40  
(3) \$45  
(4) \$50
9. The area of the triangle ABC is \_\_\_\_\_.



- (1)  $12 \text{ cm}^2$   
(2)  $16 \text{ cm}^2$   
(3)  $24 \text{ cm}^2$   
(4)  $36 \text{ cm}^2$

10. Find  $\angle a$  in the following triangle.



- (1)  $15^\circ$  (2)  $25^\circ$   
 (3)  $35^\circ$  (4)  $45^\circ$

11. Which number when divided by 8 gives a quotient of 82 and a remainder of 4?

- (1) 336 (2) 652  
 (3) 656 (4) 660

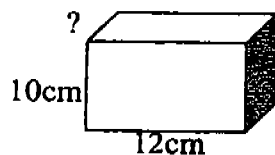
12. Find the value of  $1\frac{4}{9} \div 3$ .

- (1)  $\frac{13}{27}$  (2)  $\frac{13}{9}$   
 (3)  $\frac{7}{3}$  (4)  $\frac{7}{9}$

13. Zhi Wei has \$55 at first. He spent \$30 on a bag. Find the ratio of his spending to the amount of money he had left. (Write your answer in the simplest form)

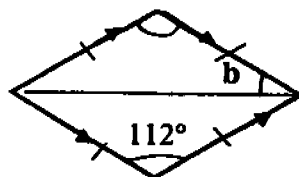
- (1) 5 : 6 (2) 5 : 11  
 (3) 6 : 11 (4) 6 : 5

14. Given the volume of the cuboid is  $840\text{cm}^3$ , find the unknown edge of the cuboid.



- (1) 4cm (2) 5cm  
 (3) 6cm (4) 7cm

15. The following quadrilateral is not drawn to scale. Find  $\angle b$ .



- (1)  $34^\circ$  (2)  $43^\circ$   
 (3)  $54^\circ$  (4)  $68^\circ$

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

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

**Booklet B (30 marks)**

Questions 16 to 25 carry 1 mark each.

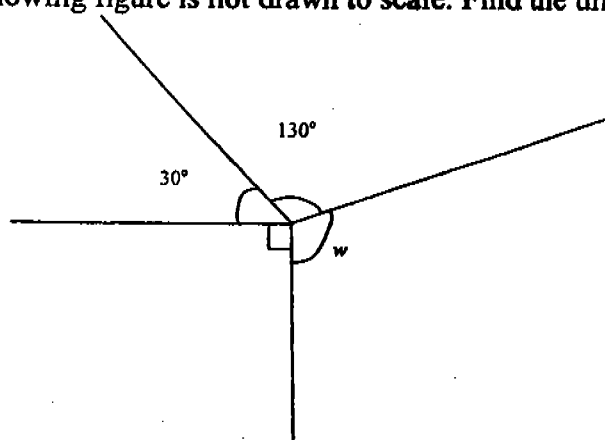
Questions 26 to 35 carry 2 marks each.

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. What is the product of 786 and 21 when rounded off to the nearest hundred.

\_\_\_\_\_

17. The following figure is not drawn to scale. Find the unknown angle  $w$ .



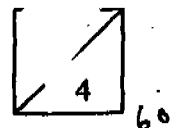
\_\_\_\_\_ °

18.  $\frac{4}{9}$  of a number is 20. Find the number.

\_\_\_\_\_

19. The equivalent ratio of 5 : 45 is \_\_\_\_\_ : 18.

\_\_\_\_\_



20. Express  $2\frac{1}{3}$  as a decimal correct to 2 decimal places. \_\_\_\_\_

21. 1.04 km is the same as \_\_\_\_\_ m. \_\_\_\_\_ m

22. The average of 15, 19, \_\_\_\_\_ and 28 is 20.5. What is the missing number?

\_\_\_\_\_

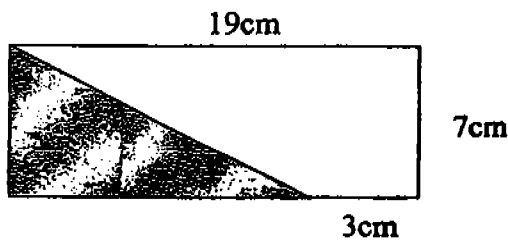
23. Siti gains 7kg in 5 months. How much does she gain each month?

\_\_\_\_\_ kg

24. What percentage of 6m is 120cm?

\_\_\_\_\_ %

25. Find the area of the shaded part of the following figure.

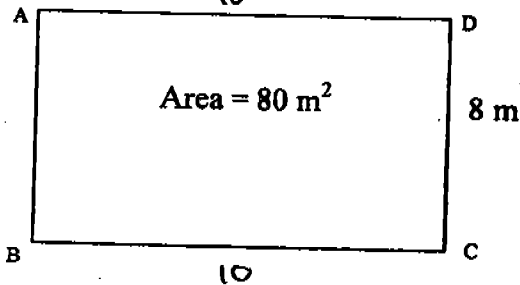


\_\_\_\_\_ cm<sup>2</sup>

26. Evaluate  $440 - (123 + 75) \div 9 + 72$

\_\_\_\_\_

27. The area of Rectangle ABCD is  $80 \text{ m}^2$ . Find its length and perimeter.



Length = \_\_\_\_\_ m

Perimeter = \_\_\_\_\_ m

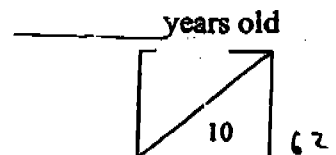
28. The perimeter of a square is  $\frac{4}{5}$  m. Find the area of the square.

\_\_\_\_\_  $\text{m}^2$

29. The ratio of the number of stickers to the number of pencils is  $8 : 5$ . If there are 135 pencils, how many stickers are there?

\_\_\_\_\_ stickers

30. The ratio of Alice's age to John's age is  $8 : 5$ . In 5 years' time, their total age will be 88 years. Find Alice's present age.



31. The perimeter of an equilateral triangle is 20.5cm. Find the length of each side of the triangle. Round off your answer to 2 decimal places.

\_\_\_\_\_ cm

The mass of a box of sweets is 125g. What is the mass of 30 such boxes of sweets?  
Express your answer in kilograms.

\_\_\_\_\_ kg

33. What is the average cost of 5 pens if 3 of them cost \$2 each and the remaining pens cost \$7.

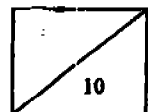
\_\_\_\_\_

34. John can run 0.8m in one second. How many kilometres can he run in 1 min?

\_\_\_\_\_ km

35. The usual price of a skirt is \$90. It was sold at a discount of 20%. Find the discounted price.

\$ \_\_\_\_\_



65



**SECTION C: (50 marks)**

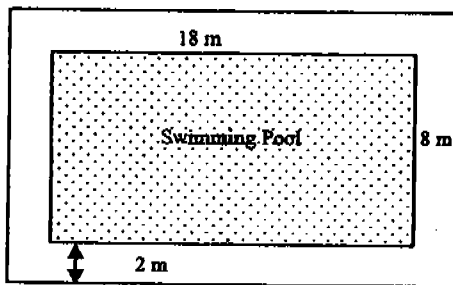
**For questions 36 to 48, show your working clearly in the space below each question and write your answers in the spaces provided.**

**The number of marks awarded is shown in brackets [ ] at the end of each question or part-question.**

36. Yao Ming bought 28 similar chairs and 5 tables for \$3400. Each table cost \$428. Find the cost of each chair.

Answer: \_\_\_\_\_ [ 3 ]

37. A rectangular swimming pool, 18 m by 8 m, has a path of width 2 m all round it. Find the area of the path.



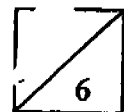
Answer: \_\_\_\_\_ [ 3 ]

38. Meng Tuan had 1230 marbles. He gave 45 marbles to Ai Lian and some marbles to Poh Hua. After that, Meng Tuan had  $\frac{4}{5}$  of his marbles left. How many marbles did he give to Poh Hua?

Answer: \_\_\_\_\_ [ 3 ]

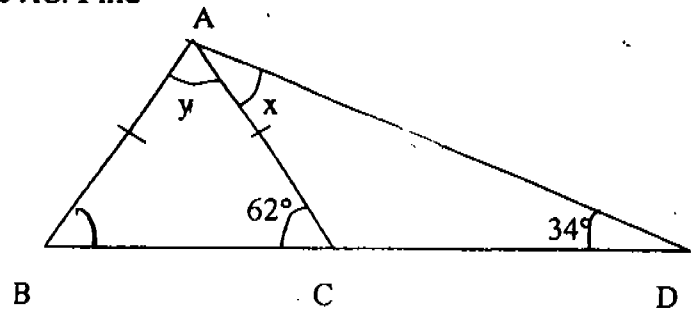
39. The total cost of a chair and a table is \$150. The table cost \$60 more than the chair. Find the cost of 5 such tables.

Answer: \_\_\_\_\_ [ 3 ]



40. BCD is a straight line and AB is equal to AC. Find

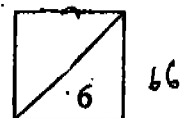
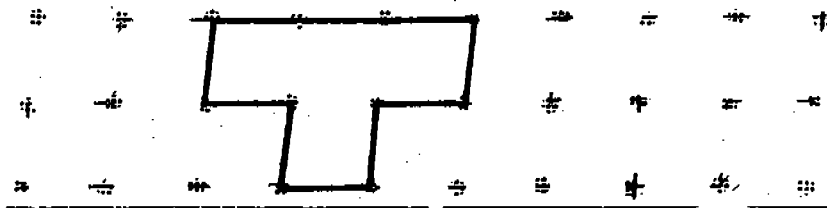
- (a)  $\angle x$
- (b) the sum of  $\angle x$  and  $\angle y$



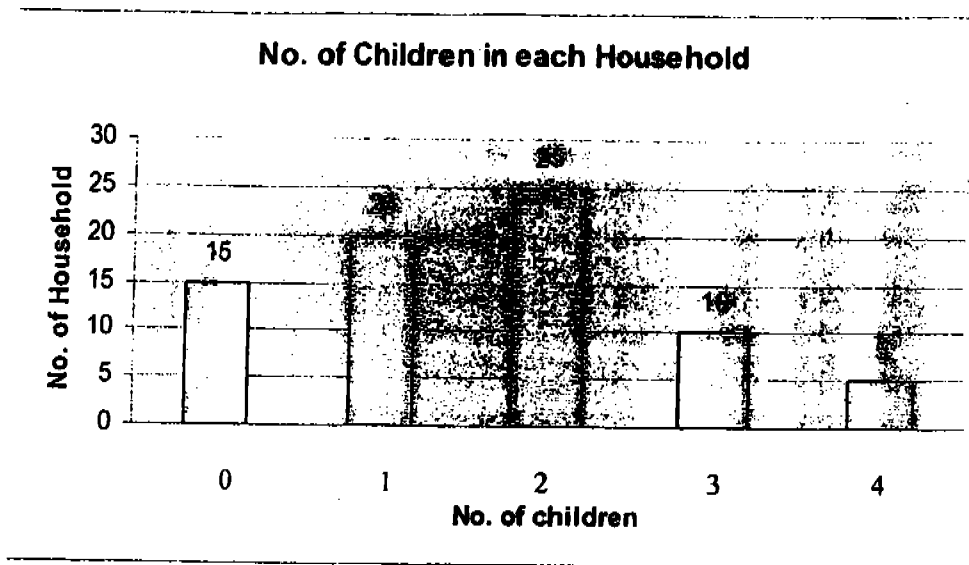
Answer: (a) \_\_\_\_\_ [ 1 ]

(b) \_\_\_\_\_ [ 2 ]

41. Draw three more unit shapes to show the tessellation in the space provided. [ 3 ]



42. The graph below shows the number of children in each household in an estate. Study it carefully and answer the questions that follow.

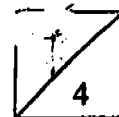


- (a) How many households have fewer than 2 children?
- (b) How many children are there in the whole estate?
- (c) What is the average number of children in each household?

Answer: a) \_\_\_\_\_ [ 1 ]

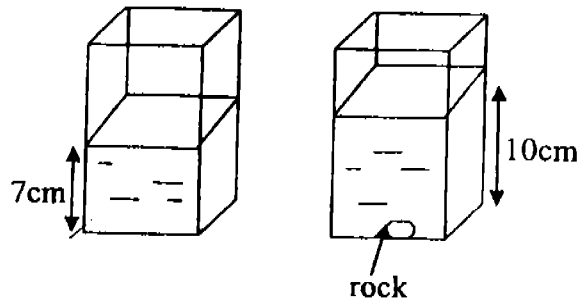
b) \_\_\_\_\_ [ 2 ]

c) \_\_\_\_\_ [ 1 ]

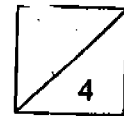


67

43. The volume of water in a rectangular tank is  $1\,400\text{ cm}^3$ . After a rock is placed into the tank, the new water level is  $10\text{ cm}$ . What is the volume of 5 such rocks?

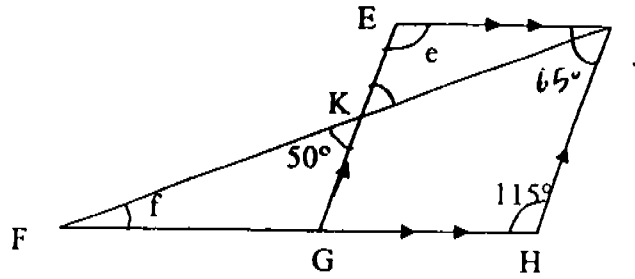


Answer: \_\_\_\_\_ [ 4 ]



44.  $FGH$  is a straight line and  $EGHJ$  is a parallelogram. Find

- (a)  $\angle e$
- (b)  $\angle f$



Answer: (a) \_\_\_\_\_ [ 1 ]

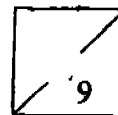
(b) \_\_\_\_\_ [ 3 ]

45. At Happy Restaurant, the charge for the buffet lunch per person is \$18. For every group of 10 people, one of them does not have to pay.

- (a) What will be the total charge for a party of 22 people?
- (b) How many people are there in the group if the bill comes up to \$720?

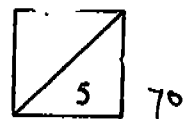
Answer (a) \_\_\_\_\_ [ 2 ]

(b) \_\_\_\_\_ [ 3 ]



46.  $\frac{1}{4}$  of the audience in a hall are men.  $\frac{1}{4}$  of the remaining audience are women. The rest are children. If there are 48 boys in the hall and the number of girls are twice as many the number of boys, find the number of women in the hall.

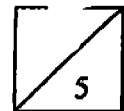
Answer: \_\_\_\_\_ [5]



47. The ratio of the number of guppies to the number of angel fish in Ben's fish tank was 5 : 3 at first. When 55 more guppies were added to the tank, the new ratio of the number guppies to that of the angel fish became 15 : 6.
- (a) What was the original number of guppies in the tank?
- (b) The next day, Ben wanted the new ratio of the number of guppies to that of the angel fish to be 7 : 3, how many guppies should he take out of the tank?

Answer (a) \_\_\_\_\_ [ 2 ]

(b) \_\_\_\_\_ [ 3 ]





48. In May, John withdrew 20% of his savings. He used \$5000 to buy a washing machine and a television set and the remaining \$1200 to buy a hi-fi set. In June, he deposited 10% of his salary into his savings account and had \$25 000 in all. How much was his monthly salary?

Answer: \_\_\_\_\_ [ 5 ]




Ai Tong Primary School  
Primary 5 Maths SA2 Exam (2005)

*Exam Solutions*

**Answer Sheets**

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

- |  |   |
|--|---|
| <p>16. 16500<br/>           17. 110<br/>           18. 45<br/>           19. 2<br/>           20. 2.33<br/>           21. 1040<br/>           22. 20<br/>           23. 1.4</p> <p>24. 20<br/>           25. 56<br/>           26. 490<br/>           27. Length = 10      Perimeter = 36<br/> <math>\frac{1}{25}</math><br/>           28. <math>\frac{1}{25}</math><br/>           29. 216<br/>           30. 48<br/>           31. 6.83<br/>           32. 3.75</p> | <p>33. 2.60<br/>           34. 0.048<br/>           35. 72<br/>           36. \$45<br/>           37. 120m<sup>2</sup><br/>           38. 201 marbles<br/>           39. \$525<br/>           40. a) 28°                      b) 84°</p> <p>41. </p> <p>42. a) 35 households      b) 120 children<br/>           c) 1.3<br/>           43. 3000cm<sup>3</sup><br/>           44. a) 115°                      b) 15°<br/>           45. a) \$360                      b) 44 people<br/>           46. 48 women<br/>           47. a) 110 guppies              b) 11 guppies<br/>           48. \$2000</p> |
|--|---|