



AI TONG SCHOOL

2007

SEMESTRAL ASSESSMENT 1

PRIMARY 4

MATHEMATICS

DURATION : 1 h 45 min

DATE : 11 May 2007

INSTRUCTIONS

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

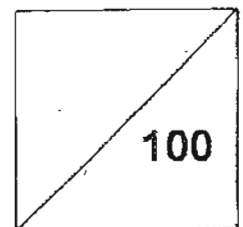
Follow all instructions.

Answer all questions.

Name : _____ ()

Class : Primary 4 _____

Marks:



Parent's Signature : _____

Date : _____

Section A

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 with a 2B pencil.

(20 marks)

1 In 68 445, the digit 6 is in the _____ place.

- (1) ones
- (2) tens
- (3) thousands
- (4) ten thousands

2 How many **tens** are there in 12 000?

- (1) 12
- (2) 120
- (3) 1200
- (4) 12 000

3 23 987 is _____ when rounded off to the **nearest hundred**.

- (1) 23 900
- (2) 23 980
- (3) 24 000
- (4) 24 900

4 What is the first common multiple of 6 and 8?

- (1) 64
- (2) 48
- (3) 36
- (4) 24

5 $345 \times 36 = 345 \times$

- (1) $3 + 6$
- (2) 3×6
- (3) $4 + 9$
- (4) 4×9

6 What is the sum of the **fourth** and **eighth** multiple of 7?

- (1) 19
- (2) 32
- (3) 39
- (4) 84

7 Which one of the following has the greatest value?

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

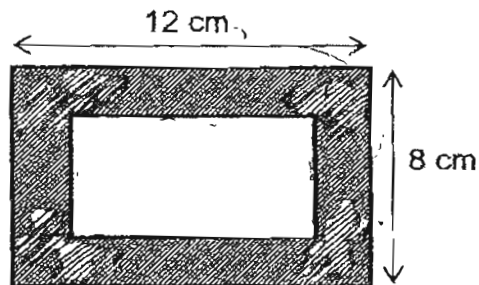
8 How many eighths are there in $2\frac{3}{4}$?

- (1) 10
- (2) 11
- (3) 19
- (4) 22

- 9 The figure below is made up of a square and rectangle. The length of the rectangle is twice the width of the square. Find the perimeter of the figure. (The figure is not drawn to scale.)

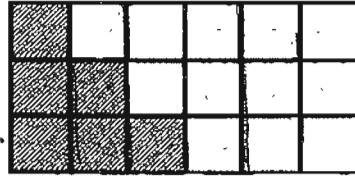


- (1) 42 cm
(2) 56 cm
(3) 63 cm
(4) 147 cm
- 10 A picture was pasted on a cardboard with a 2-cm border all around it. Find the area of the **shaded** part. (The figure is not drawn to scale.)



- (1) 32 cm²
(2) 60 cm²
(3) 64 cm²
(4) 96 cm²

- 11 How many more squares must be shaded so that $\frac{5}{6}$ of the figure will be shaded?



- (1) 6
(2) 9
(3) 12
(4) 15
- 12 $4 \times \frac{1}{5}$ is equal to _____.

- (1) $\frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5}$
(2) $\frac{1}{5} \times \frac{1}{5} \times \frac{1}{5} \times \frac{1}{5}$
(3) $4 + \frac{1}{5}$
(4) $4 - \frac{1}{5}$

- 13 A small tin has 3 litres of paint. A large tin has twice as much paint as the small tin. How much paint will there be in 2 small tins and 3 large tins?

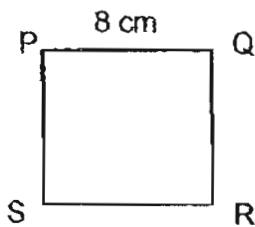
- (1) 6 litres
(2) 11 litres
(3) 24 litres
(4) 36 litres

14 Using the digits 3, 8, 0, 9 and 4, form the smallest 5-digit even number.

- (1) 43 890
- (2) 40 398
- (3) 30 498
- (4) 34 890

15 Square PQRS and Rectangle WXYZ have the same perimeter.

What is the length of the rectangle? (The figures are not drawn to scale.)



- (1) 8 cm
- (2) 12 cm
- (3) 16 cm
- (4) 24 cm

Section B

Questions 16 to 35 carry 2 marks each. Write your answers in the spaces provided.
For questions which require units, give your answers in the units stated.

(40 marks)

16 The value of digit 8 in 87 425 is $8 \times$ _____.

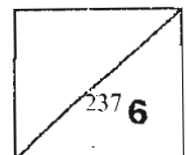
Ans: _____

17 A number between 10 and 20 has 6 factors. The sum of all the factors is 39.
What is the number?

Ans: _____

18 Shanti bakes 1020 cookies. She wants to pack them into tins. If a tin can contain 8 cookies, what is the least number of tins she needs?

Ans: _____



19 Subtract 6459 from 10 000. Round off the answer to the nearest ten.

Ans: _____

20 John and Peter have 2450 stamps altogether. If John has 1656 stamps, how many more stamps does he have than Peter?

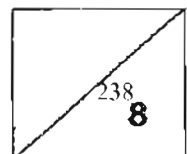
Ans: _____

21 $540 \times 35 = \underline{\hspace{2cm}} \times 35 + 40 \times 35$. What is the missing number?

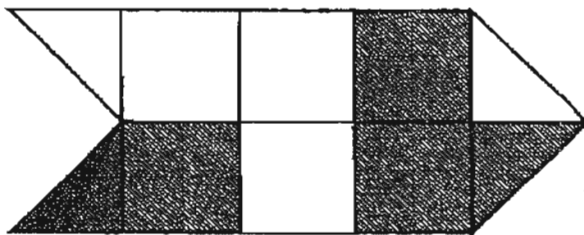
Ans: _____

22 Mary bought 5 dresses. Two of the dresses cost \$150 and the rest cost \$85 each. How much did she pay for all the dresses?

Ans: \$ _____



- 23 What fraction of the figure is **not** shaded? Express your answer in the simplest form.



Ans: _____

- 24 Amy drinks $\frac{1}{4}$ litres of milk every day. How many litres of milk will she drink in a week? (Give your answer as a mixed number.)

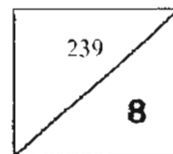
Ans: _____ litres

- 25 $\frac{2}{3}$ of ~~36~~ = 8 × _____

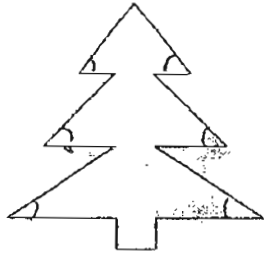
Ans: _____

- 26 Mr Ong had 72 apples. He used $\frac{4}{9}$ of them to make apple juice. How many apples had he left?

Ans: _____

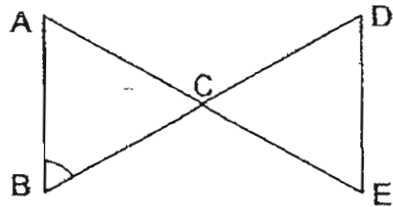


27 How many angles in the figure below are less than 90° ?



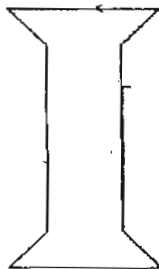
Ans: _____

28 Using a protractor, find $\angle ABC$.

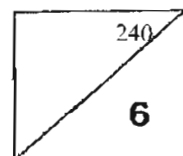


Ans: _____

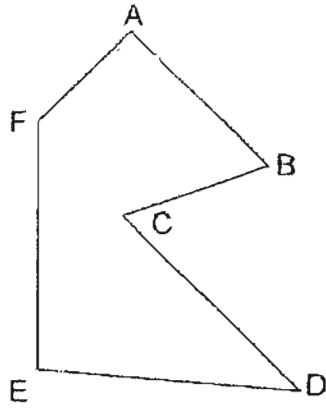
29 How many pairs of parallel lines are there?



Ans: _____

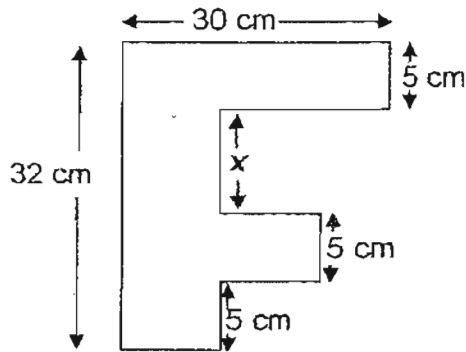


30 Name the pair of perpendicular lines in the figure below.



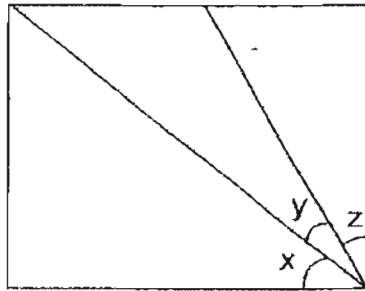
Ans: _____

31 Find the length of x . (The figure is not drawn to scale.)

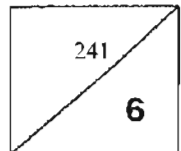


Ans: _____ cm

32 The figure, not drawn to scale, shows a rectangle. If $\angle y$ is 20° and the size of $\angle x$ is twice as big as the size of $\angle y$, what is $\angle z$?



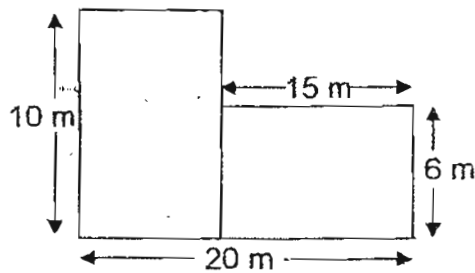
Ans: _____



33 Find the perimeter of a square which has an area of 144 cm^2 .

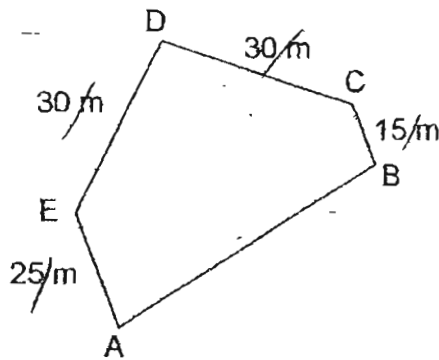
Ans: _____ cm

34 Find the area of the figure below. (The figure is not drawn to scale.)

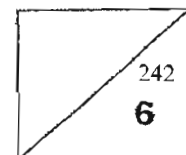


Ans: _____ m^2

35 The perimeter of the park is 180 m. What is the length of AB?



Ans: _____ m



Section C

Questions 36 to 45 carry 4 marks each. Show your working clearly in the space provided below each question and write your answers in the spaces provided.

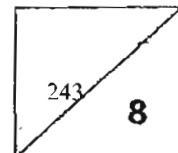
(40 marks)

-
- 36 Container A has 288 sweets and container B has 360 sweets. How many sweets must be transferred from Container B to Container A so that Container A will have 54 sweets more than Container B?

Ans: _____ [4]

-
- 37 Mrs Devi sold 5894 plates of noodles on Monday and Tuesday. She sold 6499 plates of noodles on Tuesday and Wednesday. If she sold 2455 plates of noodles on Wednesday, how many plates of noodles did she sell on Monday?

Ans: _____ [4]

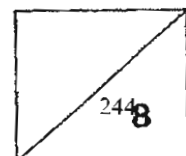


- 38 Pen A costs 4 times as much as Pen B. The price of Pen C is $\frac{3}{4}$ the price of Pen A. If Pen C costs \$18, what is the price of Pen B?

Ans: _____ [4]

-
- 39 Leo bought 5 boxes of shuttlecocks. He then packed the shuttlecocks into tubes. Each tube had 6 shuttlecocks. After packing them, he found that he had 17 tubes and 3 shuttlecocks left. How many shuttlecocks were there in each box?

Ans: _____ [4]

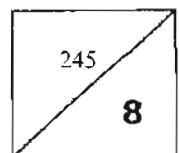


- 40 The length of a rectangular room is 12 m. Its width is half its length.
How much will it cost to tile the whole room at \$20 per square metre?

Ans: _____ [4]

- 41 Jaya paid a total of \$270 for 3 shirts and 2 pairs of shoes. Each pair of shoes cost \$15 more than a shirt. How much did the 1 pair of shoes cost?

Ans: _____ [4]



- 45 440 red, blue and white beads were used to make a purse. There were three times as many red beads as blue beads.

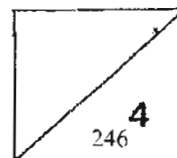
The number of blue beads was $\frac{2}{3}$ the number of white beads.

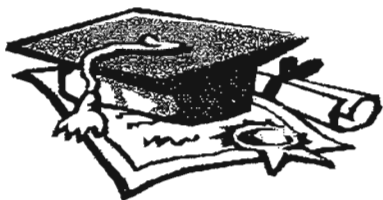
- (a) How many red beads were there?
(b) If all the beads were packed equally into 15 boxes, how many white beads were there in each box?

Ans: _____ [4]

END-OF-PAPER

Please check your work carefully





ANSWER SHEET

AI TONG PRIMARY SCHOOL - PRIMARY 4 MATHEMATICS 2007
SEMESTRAL ASSESSMENT (1)

1. 4
2. 3
3. 3
4. 4
5. 4
6. 4
7. 1
8. 4
9. 2
10. 3
11. 2
12. 1
13. 3
14. 3
15. 3
16. 1000
17. 18
18. 28
19. 3540
20. 362 more stamps
21. 500
22. \$40
23. $\frac{1}{2}$
24. $1\frac{3}{4}$
25. 3
26. 40 apples left
27. 7
28. 60°
29. 4
30. FA LAB
- 31) 17cm
32) 30
33) 48cm
34) 140m²
35) 80m
36) $360 - 288 = 72$
 $72 \div 54 = 18$
Container B must transferred 18 sweets to container A.
37) $6499 - 2455 = 4044$ (Tuesday)
 $5894 - 4044 = 1850$ (Monday)
She sell 1850 plates of noodles on Monday.
38) $28 \div 18 = 42$
 $42 \times 4 = 168$
The price of Pen B is 160 sweets.
39) $17 \div 6 = 102$
 $102 \div 3 = 105$
 $105 \div 5 = 21$
There are 21 shutable cooks in each box.
40) $12 \div 2 = 6m$
 $12 \times 6 = 72m^2$
 $\$20 \times 72 = \1440
It will cost \$1440 to tile the whole room.

41) 3 shirts

x	x	x
---	---	---

 } \$270

2 pair of shoes

x	x	15	15
---	---	----	----

$$3x + 2x + 15 + 15 = \$270$$

$$5x + 30 = \$270$$

$$5x = 270 - 30$$

$$x = 240 \div 5$$

$$x = 48$$

1 pair of shoes = $48 + 15 = \$63$

One pair of shoes cost \$63

42) rectangle = $30 \times 20 = 600 \text{ cm}^2$

$$\text{Area} = 10 \times 10 = 100 \text{ cm}^2$$

$$\text{Shaded part} = 600 - 100 - 109 = 391 \text{ cm}^2$$

The area of the shaded part is 391 cm^2

$$43) 90^\circ - 40^\circ = 50^\circ$$

$\angle CDE$ is 50°

$$44) 2400 \times \frac{1}{3} = \$800$$

$$800 \times 12 = 9600$$

$$9600 \times \frac{5}{8} = \$600$$

45) 8 white beads