AI TONG SCHOOL

2011

SEMESTRAL ASSESSMENT 1

PRIMARY 4

MATHEMATICS

DURATION : 1 h 45 min

DATE : 11 MAY 2011

INSTRUCTIONS
Do not open the booklet until you are told to do so.
Follow all instructions.
Answer all questions.

Name : _____ ( )

Class : Primary 4 (_____)

Section A	28
Section B	40
Section C	32
Total	100

Parent's Signature: _____

Date : _____

Section A

Questions 1 to 14 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. (28 marks)

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1 In 92 581, what is the value of the digit 5?

(1) 50

(2) 500

(3) 5000

(4) 50 000

2 Which of the following numbers is 23 800 when rounded off to the nearest 100?

(1) 23 891

(2) 23 855

(3) 23 773

(4) 23 716

3 Complete the number pattern.

16 550, 16 900, _____, 17 600

(1) 17 050

(2) 17 100

(3) 17 250

(4) 17 300

4 8 is a common factor of _____.

(1) 16 and 32

(2) 8 and 28

(3) 4 and 8

(4) 4 and 2

5 When a number is divided by 9, the quotient is 927. What is this number?

(1) 13

(2) 103

(3) 936

(4) 8343

6 What is the product of 239 and 48 when rounded off to the nearest 10?

(1) 11 470

(2) 11 480

(3) 76 480

(4) 76 500

7 Jenny had 914 pairs of earrings. She packed them into bags of 5 pairs each. What was the maximum number of bags she needed if all the earrings were packed into bags?

(1) 182

(2) 183

(3) 186

(4) 188

8 $\frac{5}{6} + \frac{5}{6} + \frac{5}{6} + \frac{5}{6} = 1 + \square$

(1) $\frac{20}{6}$

(2) $\frac{20}{24}$

(3) $2\frac{1}{3}$

(4) $3\frac{2}{6}$

9 Maria spent $\frac{2}{7}$ of her salary on transport and $\frac{1}{7}$ on food. If she had \$1200 left, how much was her salary?

(1) \$ 300

(2) \$ 400

(3) \$ 1600

(4) \$ 2100

10 Mdm Teo bought 16 kg of meat. She used $\frac{3}{8}$ of it to make meatballs and $\frac{1}{2}$ kg to make some dumplings. How many kilograms of meat had she left?

(1) $9\frac{1}{2}$ kg

(2) 2 kg

(3) $10\frac{1}{2}$ kg

(4) $15\frac{1}{8}$ kg

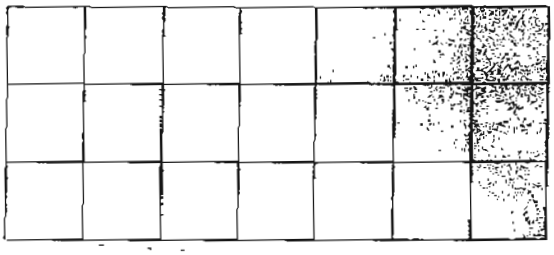
11 How many **more** squares must be shaded so that $\frac{4}{7}$ of the figure is **unshaded**?

(1) 12

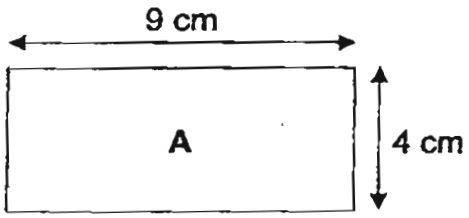
(2) 9

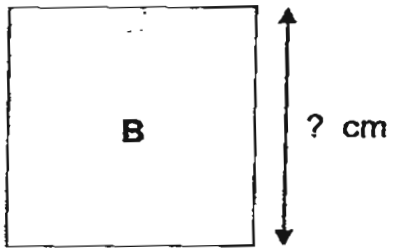
(3) 3

(4) 6



12 Rectangle A has the same area as Square B. What is the length of the square?





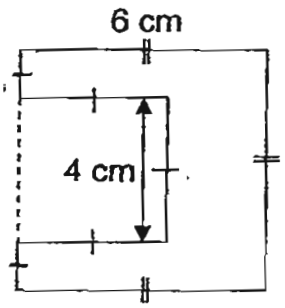
(1) 12 cm

(2) 6 cm

(3) 3 cm

(4) 36 cm

13 What is the perimeter of the figure?



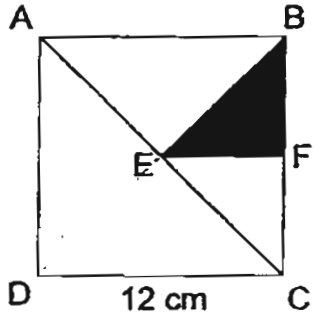
(1) 30 cm

(2) 32 cm

(3) 34 cm

(4) 40 cm

14



The figure above shows a square ABCD of side 12 cm.
Given that AE = CE and BF = CF, find the area of the shaded part.

(1) 12 cm^2

(2) 18 cm^2

(3) 36 cm^2

(4) 144 cm^2

Section B

Questions 15 to 34 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)

15 Write ninety-nine thousand and ninety-nine in figures.

Ans: _____

16 Find the value of 3109 + 542 – 448.

Ans: _____

17 Find the sum of all the factors of 12.

Ans: _____

18 Form the greatest five-digit **even** number using all the digits below.

0, 8, 5, 2, 4

Ans: _____

8

19 Evaluate $\frac{5}{7} \times 13$ and give your answer as an improper fraction.

Ans: _____

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20 If $359 \times 12 = 4308$, then $359 \times 11 = 4\,308 - \square$.
What is the number on the box?

Ans: _____

---

21 Mr Larry is thrice as old as his son. Their total age is 60 years. How old is Mr Larry now?

Ans: _____ years old

---

22 Express 62 eighths as a mixed number in its simplest form.

Ans: _____

8

23 ♡ + ♡ + ♡ = $\frac{12}{14}$

What is ♡ × 21 ?

Ans: _____

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24 At bus stop A, 9 passengers alighted from a bus. At bus stop B, 5 passengers alighted and 2 passengers boarded the same bus. There were 29 passengers in the bus after that. How many passengers were there in the bus at first?

Ans: _____

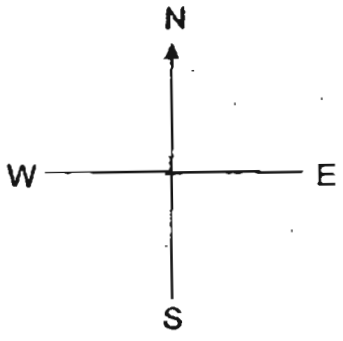
---

25 Simon has $200. If Simon spent $\frac{1}{10}$ of his money, the amount of money left will be as much as Ron. How much does Ron have?

Ans: $_____

6

26 Lincoln is standing in the middle of the 4-point compass facing South-west. Where will he be facing if he makes a $\frac{5}{8}$ - turn anti-clockwise?



Ans: _____

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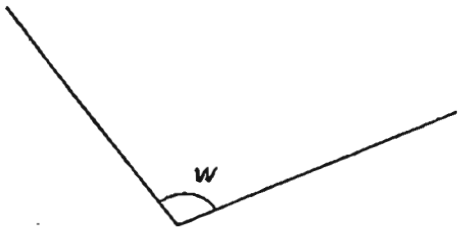
27 Using a protractor, measure angle w.



Ans: _____

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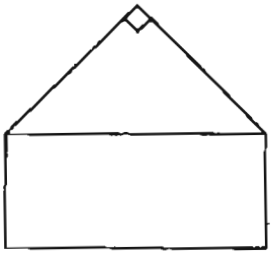
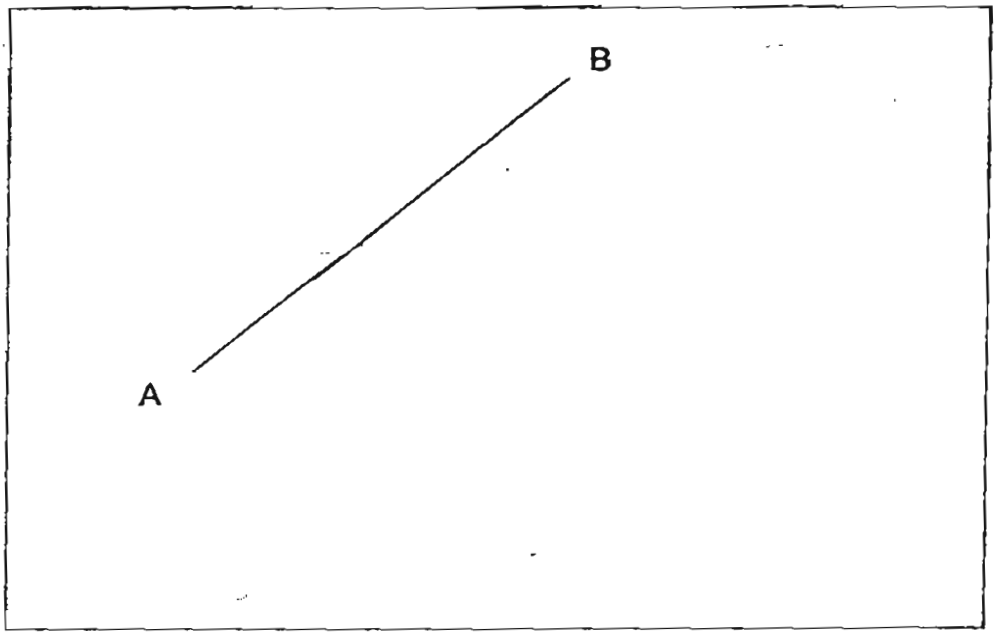
28 The figure is made up of a right-angled triangle and a rectangle. How many pairs of perpendicular lines are there in the diagram shown below?



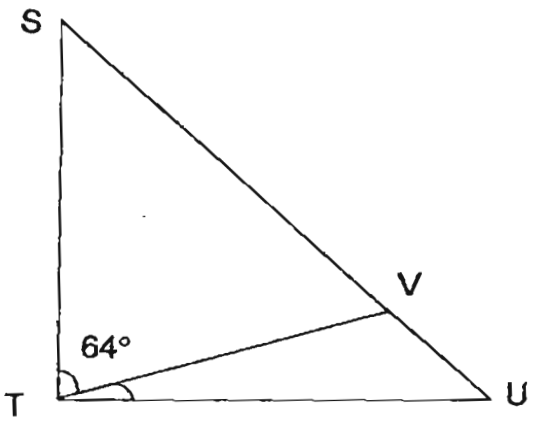
Ans: _____

6

29 Draw a line parallel to AB within the box and label it CD .



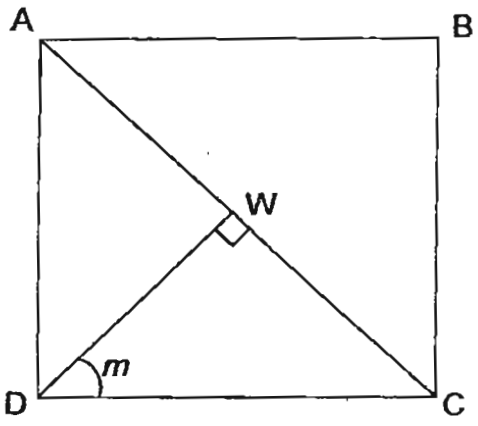
30 In the figure below, ST is perpendicular to TU. Find $\angle$ VTU.



Ans: _____ °

4

31 ABCD is a square not drawn to scale. DW is perpendicular to AC.
Find the size of $\angle m$.



Ans: _____ °

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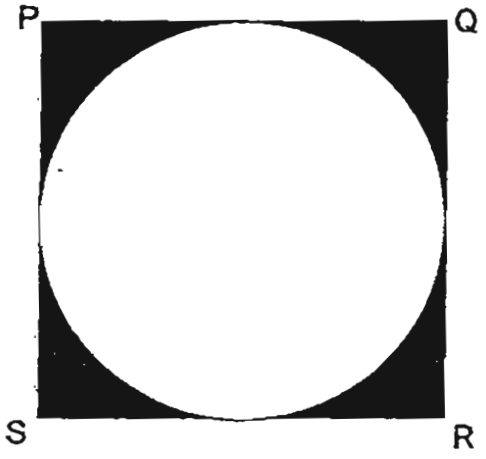
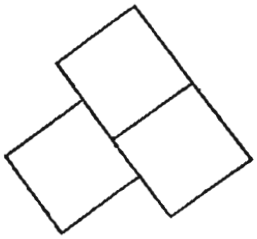
32 PQRS is a square of side 14 cm. The circle inside has an area of 154 cm^2.
What is the area of the shaded part?



Ans: _____ cm^2

33

~~32~~ The figure below, not drawn to scale, is made up of 3 identical squares. The perimeter of the figure is 72 cm. What is the area of the figure?



Ans: _____ cm^2

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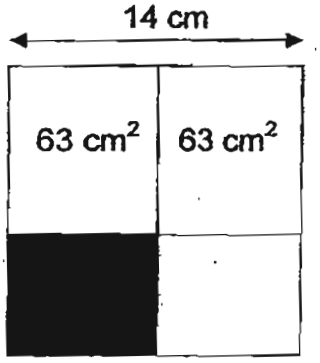
34 The figure below is a square made up of 4 rectangles. Find the area of the shaded part.



Ans: _____ cm^2

4

Section C

Questions **35** to **38** carry 3 marks each. Questions **39** to **43** carry 4 marks each. Show your working clearly in the space provided below each question and write your answers in the spaces provided. (32 marks)

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35 Leela bought 3 dresses at $17 each. She bought a blouse that cost $27 more than the amount she had paid for the 3 dresses. How much did she pay for the 3 dresses and the blouse?

Ans: _____ [3]

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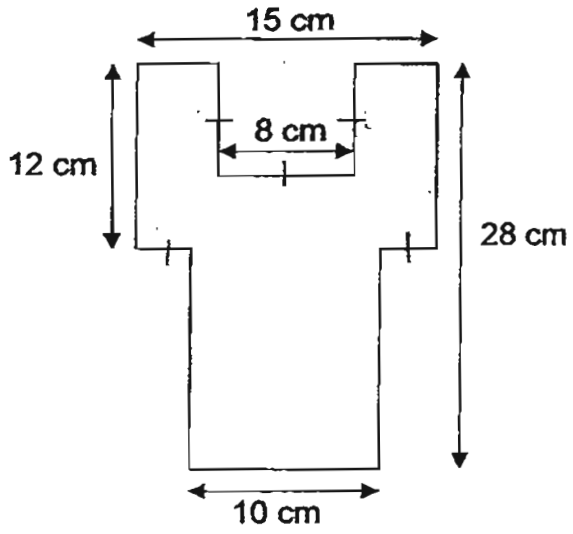
36 A bottle of syrup was $\frac{3}{4}$ full. After Mrs Chan used 100 ml of syrup from the bottle, it became $\frac{5}{12}$ full. What was the capacity of the bottle?

Ans: _____ [3]

6

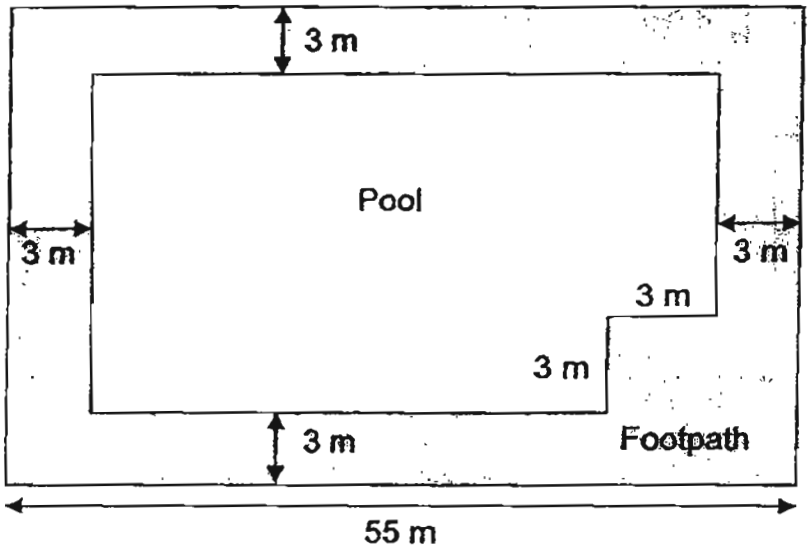
37 Study the composite figure below. Find the area of the figure.



Ans: _____ [3]

3

38 A pool is surrounded by a footpath as shown in the diagram below. The length of the footpath is 55 metres and its breadth is $\frac{2}{5}$ of its length. Find the area of the pool.



Ans: _____ [3]

3

39 Each train ticket is priced at $5. For every 9 tickets bought, 1 will be given free. Find the total ticket cost for a group of 85 people.

Ans : _____ [4]

---

40 There were twice as many blue clips as yellow clips in the box. After giving away 66 blue clips and 8 yellow clips, there were thrice as many yellow clips as blue clips left in the box. How many clips were there in the box at first?

Ans : _____ [4]

8

41 Simon used some coins to form a sequence of figures. The first three figures are shown below.

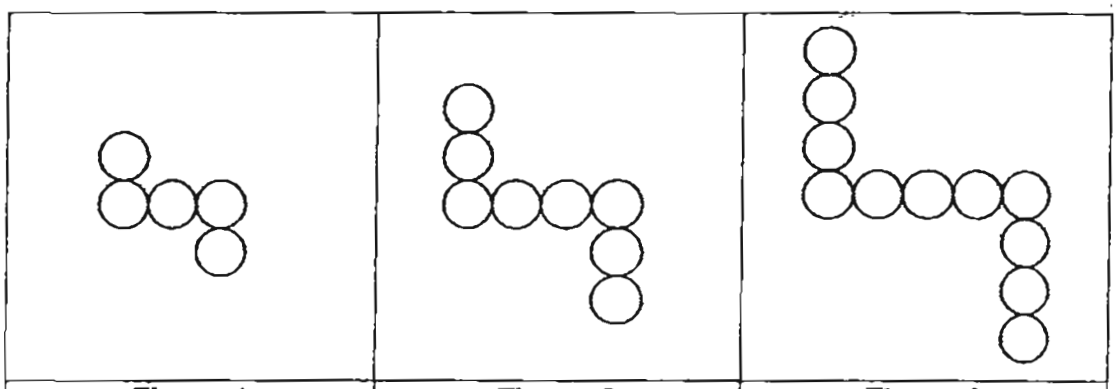


Figure 1 | Figure 2 | Figure 3

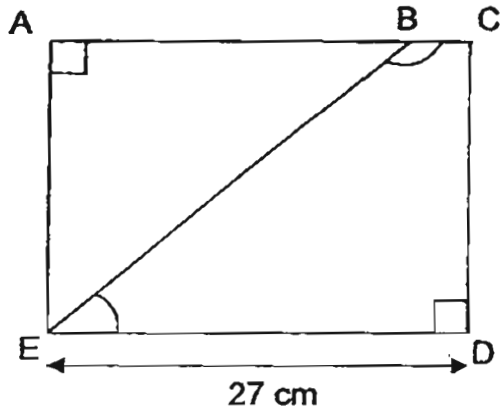
(a) Draw Figure 4 and Figure 5 in the space below. [2]

Figure 4 | Figure 5

(b) Figure _____ will be formed with 266 coins?

Ans: (b)_____ [2]

42



The figure above is not drawn to scale. ABE is a right-angled triangle and AC is parallel to ED. $\angle$ BED is 8° more than $\angle$ AEB.

(a) If BC is $\frac{1}{6}$ of ED, find the length of BC. (Give your answer in simplest form.)

(b) Find $\angle$BED.

Ans: (a) _____ [2]

(b) _____ [2]

4

43 Bala opened up a book and added the page numbers of the two facing pages. He found the answer to be 119. He then decided to multiply the page numbers of these two pages. What is the product of the two page numbers?

Ans : _____ [4]

4

End-of-paper

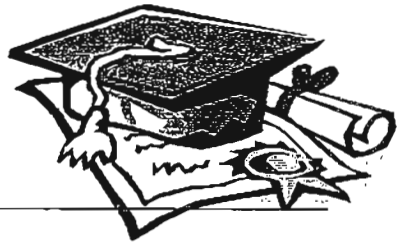
Please check your work carefully.

ANSWER SHEET

EXAM PAPER 2011

SCHOOL : AITONG PRIMARY
SUBJECT : PRIMARY 4 MATHEMATICS

TERM : SA1

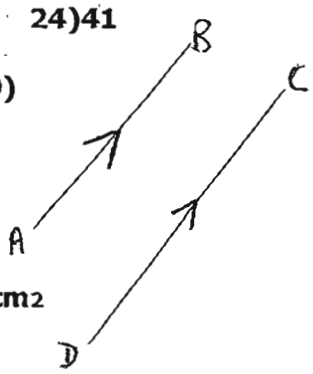


Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14
2	3	3	1	4	1	2	3	4	1	3	2	2	2

15)99099 **16)3203** **17)28** **18)85420** **19)65/7**

20)359 **21)45** **22)7¾** **23)6** **24)41**

25)$180 **26)North** **27)105°** **28)5** **29)**



30)26° **31)45°** **32)42cm2** **33)243cm2**

34)35cm2

35)17 x 3 =$51
51+27 = $78
78 + 51 = $129

36)400ml

37)A= 10x16 = 160cm2
B=(15x2)-(8x8)
= 116cm2
A+B=160 + 116
= 276cm2

38)55÷ 5 = 11
11 x 2 = 22
55 x 22 = 1210
3 x 3 = 9
3 x 2 = 6
55 – 6 = 49
3 x 2 = 6
22 – 6 = 16
49 x 16 = 784
784 – 9 = 775m2

39)9 x $5 = $45
$45 x 8 = $360
$5 x 5 = $25
$360 + $25 = $385

40)75 clips

41)a)14, 17
b)88

42)a)27÷ 6 = 4R3
= 43/6 = 4½cm
b)90 – 8 = 82
82÷ 2 = 41
41 + 8 = 49°

43)119 – 1 = 118
118÷ 2 = 59
59 + 1 = 60
59 x 60 = 3540