AI TONG SCHOOL

2012

SEMESSTRAL ASSESSMENT 2

PRIMARY 4

MATHEMATICS

DURATION : 1 h 45 min

DATE : 23 October 2012

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 The value of the digit 1 in 31 246 is _____.

(1) 10

(2) 100

(3) 1000

(4) 10 000

2 Which of the following numbers when rounded off to the nearest ten becomes 81 500?

(1) 81 444

(2) 81 496

(3) 81 506

(4) 81 554

3 Find the value of $\frac{7}{9} - \frac{1}{3}$

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

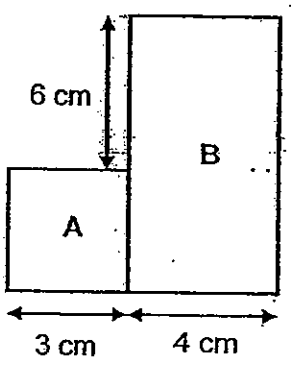
(2) 2

(3) $\frac{4}{9}$

(4) $\frac{8}{9}$

4 The figure shown is made up of a square A of side 3 cm and a rectangle B with breadth 4 cm. What is the length of the rectangle?

(1) 6 cm
(2) 7 cm
(3) 9 cm
(4) 10 cm



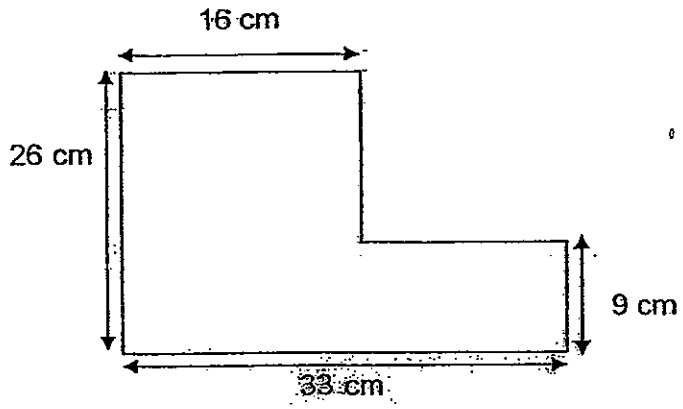
5 In which of the following numbers does the digit 4 stands for 4 tenths?

(1) 13.45
(2) 21.54
(3) 34.68
(4) 41.53

6 Write $3\frac{7}{20}$ as a decimal.

(1) 3.72
(2) 3.7
(3) 3.35
(4) 3.035

7 The figure below is not drawn to scale. Given that all the lines meet at right angles, find its perimeter.



(1) 52 cm

(2) 84 cm

(3) 118 cm

(4) 132 cm

8 The length of a rectangle is twice its breadth. If the breadth is 9 cm, what is the area of the rectangle?

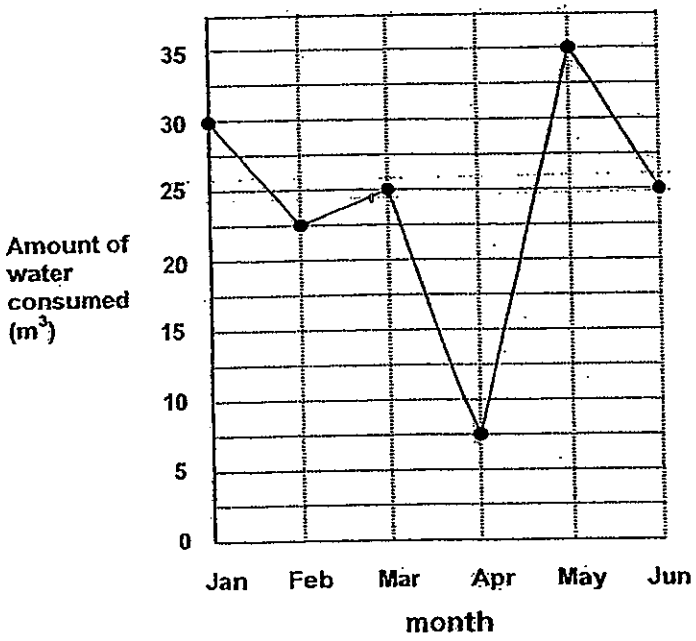
(1) 54 cm^2

(2) 81 cm^2

(3) 121 cm^2

(4) 162 cm^2

The line graph shows the water consumption of the Low family for the past six months. Study the graph carefully and answer questions **9 and 10.**



9 What was the **increase** in water consumption from Apr to May?

(1) 17.5 m^3

(2) 27.5 m^3

(3) 35 m^3

(4) 42.5 m^3

10 If the Low family had to pay \$1.20 for every m^3 of water used, how much **less** did the Low family pay in June as compared to May?

(1) \$12

(2) \$42

(3) \$30

(4) \$72

11 A bamboo stick was cut into two pieces. The first piece was $\frac{3}{8}$ m long. The second piece was twice as long. What was the original length of the bamboo stick?

(1) $\frac{1}{8}$ m

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

(3) $1\frac{1}{8}$ m

(4) $2\frac{1}{4}$ m

12 Which of the following figures below **do not** have a line of symmetry?

Figure A

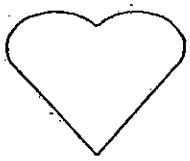


Figure B

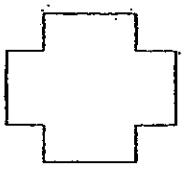


Figure C

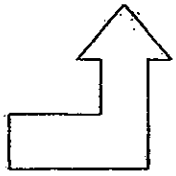


Figure D

(1) Figures A and B

(2) Figures B and C

(3) Figures C and D

(4) Figures A and D

13 Mr Tan took a flight to Thailand and arrived at 14 10. If the journey took him 3 h 30 min, at what time did the plane take off?

(1) 10 40

(2) 11 10

(3) 17 40

(4) 18 10

14 Jamie had $18 more than Nicole. After their father gave each of them $12, both of them had $68 altogether. How much money did Nicole have at first?

(1) $13

(2) $25

(3) $31

(4) $43

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 eleven thousand and forty-five in figures.

Ans: _____

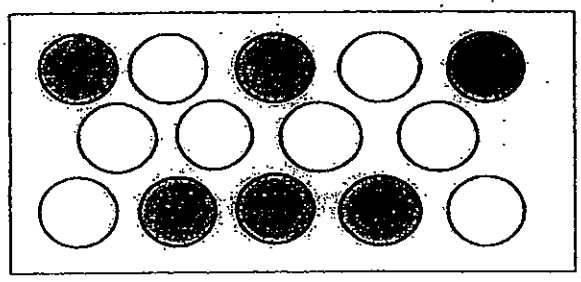
16 What number is 10 more than 7895?

Ans: _____

17 Two factors of 6 are 1 and 6. What are the other two factors of 6?

Ans: _____ and _____

18 What fraction of the circles shown is **shaded**?



Ans: _____

19 Which two of the fractions below are smaller than $\frac{1}{2}$?

$\frac{3}{7}$, $\frac{6}{12}$, $\frac{2}{3}$, $\frac{3}{11}$

Ans: _____ and _____

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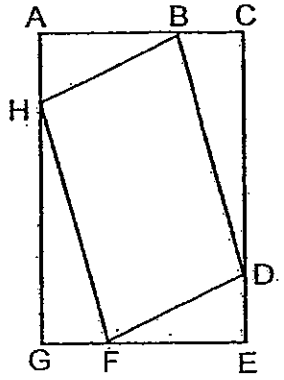
20 In the figure below, one of the lines is parallel to BD. Which line is parallel to BD?



Ans: _____

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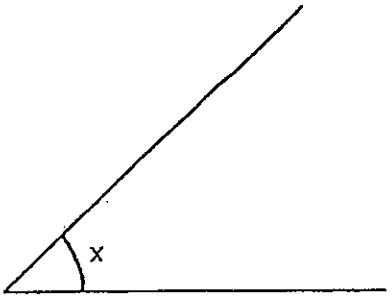
21 Measure and write down the size of $\angle x$.



Ans: _____

6

22 Arrange the following numbers in order from the smallest to the greatest.

4.8 , 4.18 , 40.1 , 4.09

Ans: _____, _____, _____, _____
(smallest) (greatest)

---

23 Write $\frac{19}{5}$ as a mixed number in its simplest form.

Ans: _____

---

24 There were 2 litres of grape juice in a bottle. Grace drank 0.45 litres of grape juice while Betty drank $\frac{4}{5}$ litres of grape juice from the bottle. How much grape juice was left in the bottle?

Ans: _____

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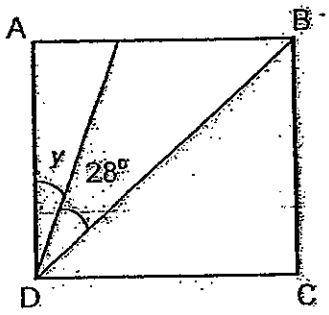
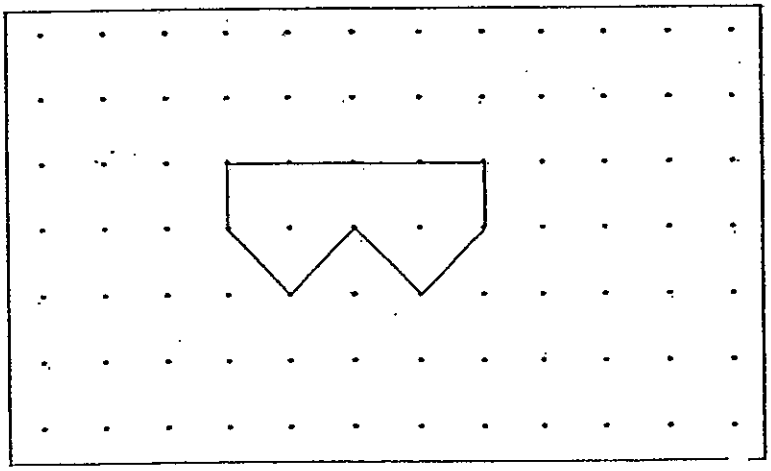
25 Study the diagram below. ABCD is a square. Find $\angle y$.



Ans: _____ °

26 Draw 4 more unit shapes to extend the tessellation.



The table below shows the different modes of transport the children use to go to school. Study the table carefully and answer questions 27 and 28.

Mode of transport	Walk	Car	Bus	Total
Number of boys	?	132	365	650
Number of girls	203	229	268	700

27 How many boys walk to school?

Ans: _____

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28 How many **more** children travel to school by bus than by car?

Ans: _____

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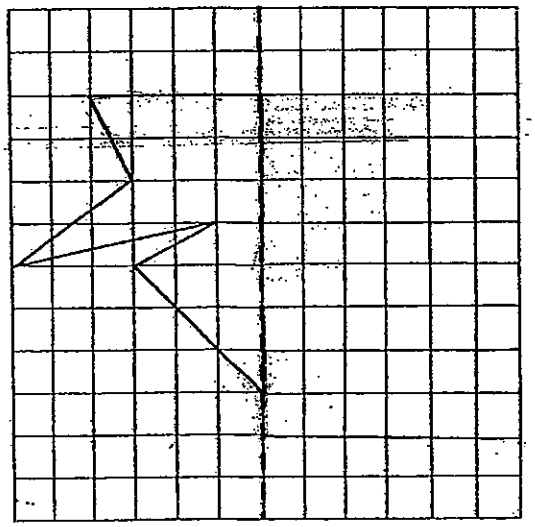
29 Complete the symmetric figure with the dotted line as a line of symmetry.



30 James took 1 h 25 min to complete his school work and then spent 55 min to practise on his piano. If he started doing his school work at 3.45 p.m., at what time did he finish practising on his piano?

Ans: _____ p.m.

31 I am a number with 3 decimal places.
The digit 6 is in the tenths place.
The digit 4 has a value of 4 hundredths.
The ones place has a value of 9.
The digit 2 stands for $\frac{2}{1000}$.
What number am I?

Ans: _____

32 Ryo has four number cards as shown below.

9	3	0	6

By using the digits on the cards, he forms the **greatest** possible 4-digit number and the **smallest** possible 4-digit number. What is the difference between these two numbers?

Ans: _____

33 How many one-eighths are there in $5\frac{1}{2}$?

Ans: _____

34 Some students plan to buy a gift for their classmate. If each of them pays \$2, they will be short of \$4 for the gift. If each of them pays \$3, they have \$4 left. If there are fewer than 10 students, how much does the gift cost?

Ans: \$_____

6

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)

35 Mr Chua is now 45 years old and his daughter is 17 years old. How many years ago was Mr Chua thrice as old as his daughter?

Ans: _____ [3]

36 Siti bought 2 bags and a watch. Each bag cost $37.80. The watch cost $56.30 more than each bag. How much did she spend altogether?

Ans: _____ [3]

37 Mdm Ho had a piece of ribbon 300 cm long. She cut out $\frac{2}{5}$ of it for Jessica and used $\frac{1}{4}$ of it for her craft work. How many centimetres of ribbon was left?

Ans: _____ [3]

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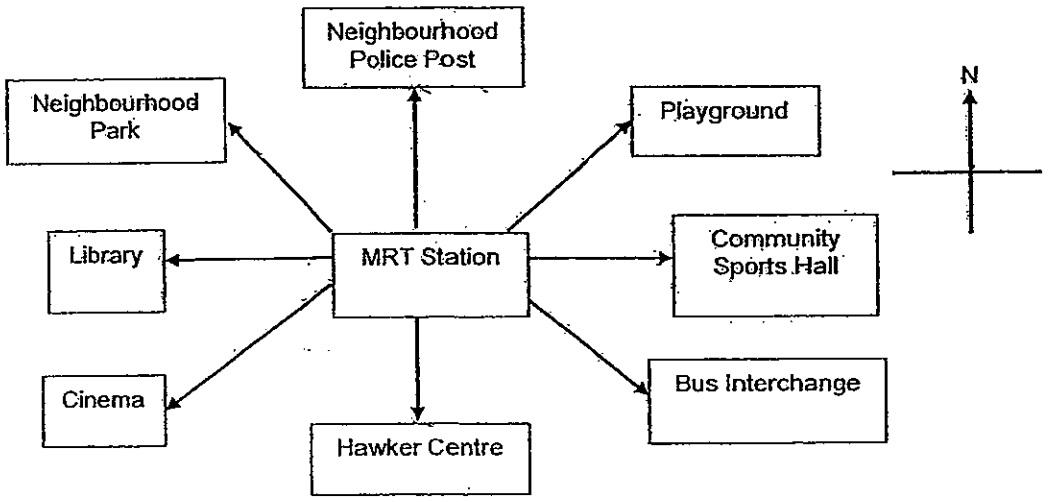
38 The diagram below shows the direction of each place from the MRT station.



(a) Which direction is the Cinema from the MRT Station?

(b) Andrew is at the MRT station facing **South**. He makes a $\frac{3}{4}$- turn in an anti-clockwise direction, where is he facing now?

Ans: (a) _____ [1]

(b) _____ [2]

6

41

39 Simon started on his Mathematics Practice Paper at 2.45 p.m. He took 5 minutes for each of the 14 multiple choice questions. He continued to complete the remaining 9 word problems, using 8 minutes for each question. At what time did he complete his Mathematics Practice Paper? (Express your answer using the 24-hour clock.)

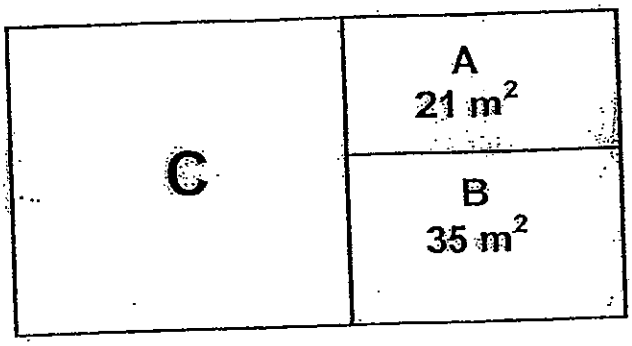
Ans: _____ [4]

4

40 The figure below is not drawn to scale. It is made up of 2 rectangles, A and B, and a square C. The lengths of all the sides of the shapes are whole numbers.

(a) Find the area of Square C.

(b) Find the perimeter of the whole figure.



Ans : (a) _____ [2]

(b) _____ [2]

4

41 Mrs Tay bought 4 pairs of shorts and 6 T-shirts for $41.60. Mrs Wong bought 3 pairs of shorts and 5 T-shirts, and paid $8 less than Mrs Tay. Find the cost of two T-shirts.

Ans: _____ [4]

---

42 If Carol gives $16 to James, both of them will have the same amount of money. If James gives $24 to Carol, she would have five times as much money as he. How much does Carol have?

Ans: _____ [4]

8

43 There are 940 blue, purple and red markers in a box. The number of blue markers is $\frac{2}{5}$ the number of purple markers. There are 85 more red markers than blue markers. How many purple markers are there?

Ans : _____ [4]

4

End-of-paper

Check your work carefully.

Answer Ke

EXAM PAPER 2012

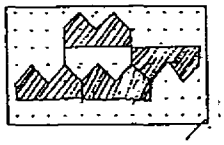
SCHOOL : AITONG
SUBJECT : PRIMARY 4 MATHEMATICS

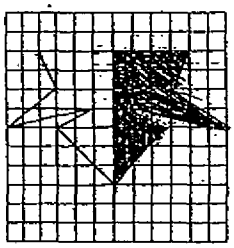
TERM : SA2

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

15)11045 **16)7905** **17)2 and 3** **18)6/14** **19)3/11 and 3/7**

20)HF **21)44°** **22)4.09, 4.18, 4.8, 40.1** **23)$3\frac{4}{5}$** **24)0.75**

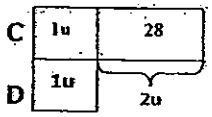
25)17° **26)**  **27)153** **28)272**

29) 

30)6.05p.m. **31)9.642** **32)6561**

33)44 **34)$20**

35)45 – 17 = 28
(difference in age is always the same)



28÷2 =14 (1u)
17 – 14 = 3

36)$37.80 + 37.80 = $75.60
$37.80 + 56.30 = $94.10
$75.60 + $94.10 = $169.70

37)300÷20 = 15
20 – 13 = 7
15 x 7 = 105cm

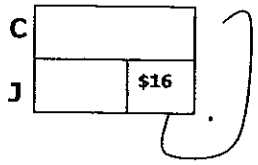
38)a)South-West
b)Library

39)14 x 5 = 70mins
2.45 + 1h 10min = 3.55p.m.
9 x 8 = 72mins
3.55 + 1h = 4.55 + 5 = 5p.m.
5p.m. + 7min = 7.07p.m.
5.07p.m. = 17 07

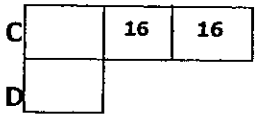
40)a)8 x 8 = 64m2
b)8 + 8 = 16 + 8 = 24
24 + 14 = 38 = 8 = 46m

41)4S + 6T = 41.60
3S + 5T = 41.60 – 8
3S + 5T = 33.60
41.60 – 33.60 = 8 (1s+1T)
8 x 3 = 24 (3s + 3T)
33.60 – 24 $9.60

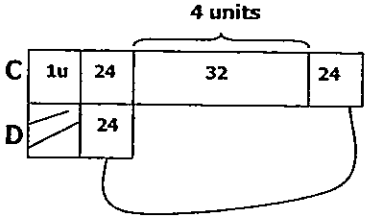
42)If cost gives James $16



Originally



James gave $24

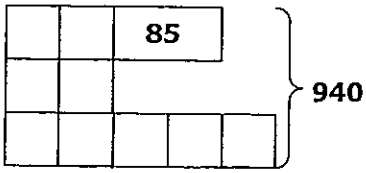


32 + 24 + 24 = 80 (4 units)
80 ÷ 4 = 20 (1unit)
20 x 5 =100 (5units)
100 – 24 = 76

43)Red

Blue

Purple



940 – 85 = 855
855 ÷ 9 = 95 (1unit)
95 x 5 = 475