



AI TONG SCHOOL

2011

CONTINUAL ASSESSMENT 1

PRIMARY 6

MATHEMATICS Paper 1 (Booklet A and B)

DURATION : 50 min

DATE : 1 March 2011

INSTRUCTIONS

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

Follow all instructions.

Answer all questions.

You are not allowed to use a calculator.

Name : _____ ()

Class : Primary 6 _____

Marks:

Paper 1	40
Paper 2	60
Total	100

Parent's Signature : _____

Date : _____

Paper 1

Booklet 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. (20 marks)

1 Find the value of $\frac{9}{10} \div 3$.

(1) $\frac{10}{27}$

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

(3) $2\frac{7}{10}$

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

2 Simplify $7y - 4 - y + 6$.

(1) $6y - 2$

(2) $6y + 2$

(3) $6y + 10$

(4) $6y - 10$

3 Express 3 m as a percentage of 2 km.

(1) $\frac{3}{200}\%$

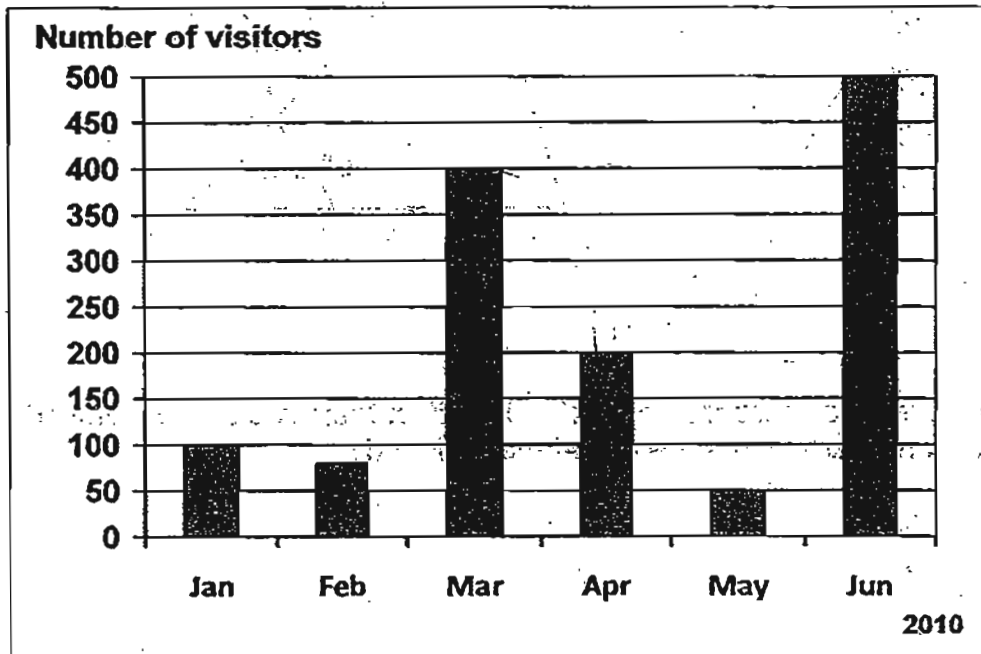
(2) $\frac{3}{20}\%$

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

(4) $1\frac{2}{3}\%$

Use the information below to answer Questions 4 and 5.

The bar graph below shows the number of visitors to a museum for the last 6 months.



4 In which month was the (percentage decrease) in the number of visitors the greatest?

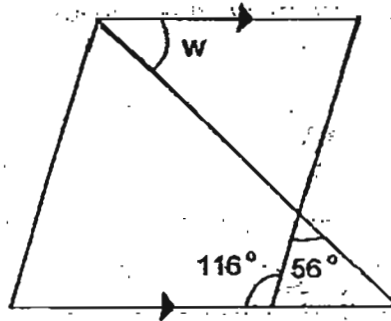
- (1) February
- (2) April
- (3) May
- (4) June

5 Find the percentage decrease in the number of visitors from April to May.

- (1) 20%
- (2) 25%
- (3) 60%
- (4) 75%

6 The figure is not drawn to scale. Find $\angle w$.

- (1) 45°
- (2) 56°
- (3) 60°
- (4) 64°



7 There are 85 classrooms in a school. 20% of them are air-conditioned. How many classrooms are **not** air-conditioned?

- (1) 15
- (2) 17
- (3) 68
- (4) 80

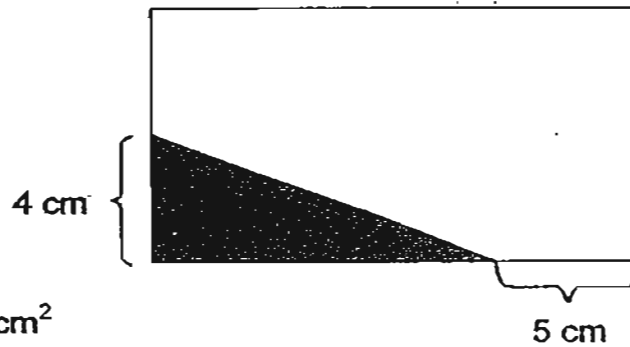
8 Kylie pays \$70 for a bag. This is 40% more than the price of a wallet. How much does the wallet cost?

- (1) \$28
- (2) \$42
- (3) \$50
- (4) \$98

9 $17 \times \frac{7}{9} = \frac{7}{9} \times \underline{\hspace{2cm}} + \frac{7}{9} + \frac{7}{9} + \frac{7}{9}$

- (1) 7
- (2) 10
- (3) 13
- (4) 14

- 10 The figure below, not drawn to scale, is a rectangle measuring 14 cm by 9 cm. Find the shaded area.



- (1) 10 cm^2
(2) 18 cm^2
(3) 28 cm^2
(4) 22.5 cm^2
- 11 Kristen stands facing South. She turns 225° anti-clockwise. What direction is she facing now?
- (1) North-East
(2) North-West
(3) South-East
(4) South West
- 12 The average of 3 numbers is 70 and the average of another 2 numbers is 45. Find the average of the 5 numbers.
- (1) 23
(2) 60
(3) 115
(4) 150

13 I have two numbers. One number is 38 less than the other number. If the larger number is increased by 10, it will be 4 times that of the smaller number. Find the larger number.

- (1) 48
- (2) 54
- (3) 64
- (4) 78

14 Serene has a sum of money. If she spends $\frac{1}{5}$ of the money on a pair of shoes and 25% of the remainder on a dress, she will have \$156 left. How much money does she have at first?

- (1) \$117
- (2) \$195
- (3) \$260
- (4) \$780

15 Chee Kwong and Ray shared \$ h . Chee Kwong received thrice as much as Ray. How much did Chee Kwong receive? Express your answer in terms of h .

- (1) $\$ \frac{3h}{4}$
- (2) ~~$\$ \frac{h}{2}$~~
- (3) ~~$\$ \frac{h}{3}$~~
- (4) ~~$\$ \frac{h}{4}$~~

Booklet B

Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

16 Express $\frac{5}{9}$ as a decimal. Correct your answer to 2 decimal places.

Ans: _____

17 Look at the following pattern of number:

$$7 \times 11 \times 13 \times 1 = 1001$$

$$7 \times 11 \times 13 \times 2 = 2002$$

$$7 \times 11 \times 13 \times 3 = 3003$$

What is $(49 \times 55 \times 26)$?

Ans: _____

18 A cube has side measuring 5 cm. Find its volume.

Ans: _____ cm^3

- 19 Chloe needs $\frac{2}{9}$ h to sew a bolster cover. How many bolster covers can she sew in 2 h?

Ans: _____

- 20 Steve can type 40 words per minute. At this rate, how many words can he type in $\frac{3}{4}$ h?

Ans: _____

- 21 The ratio of Ramesh's money to Ailin's money is 1 : 2. Ailin had $\frac{3}{4}$ as much money as Patrick. What is the ratio of Patrick's money to Ramesh's money?

Ans: _____

22 Jolepe accidentally spilled ink onto her result slip. Her results were as follow.

<u>Continual Assessment 1 Results</u>	
English	84
Chinese	7
Mathematics	9
Science	91
Average	86

What could the smallest possible difference between her Chinese and Mathematics marks be?

Ans: _____

23 The table below shows the parking fees at a car park in a shopping mall.

Parking Rates	
First 10 minutes	Free
First 1 hour	\$3.50
Each additional 30 minutes or part thereof	\$0.60

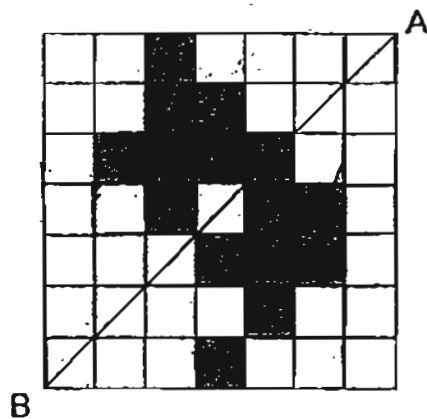
Mr Raja parked his car at the car park for $4\frac{1}{4}$ h. Find the parking fees he had to pay.

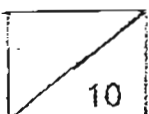
Ans: \$ _____

- 24 Mrs Tan has $1\frac{6}{7}$ kg of flour. She repacks them into smaller packets of $\frac{1}{3}$ kg each. How many such packets does she get?

Ans: _____

- 25 In the figure below, shade the least number of unit square(s) so that the figure symmetrical about the line AB.



Total  10

Questions 26 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

26 Hannah had 50 stamps. Her brother, Steve, had 160 stamps more than she. After receiving an equal number of stamps from Aunt Sara, Hannah has $\frac{1}{3}$ as many stamps as Steve. How many stamps did Aunt Sara give to each of them?

Ans: _____

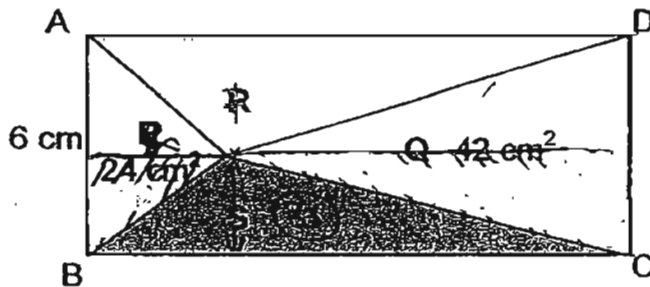
27 $\frac{2}{3}$ of Jacob's money is the same as $\frac{3}{4}$ of Meiling's money. What is the ratio of Meiling's money to Jacob's money?

Ans: _____

28. This year, Ahmad is 24 years old and his father is 52 years old. How many years ago was Ahmad's father 8 times as old as he was?

Ans: _____ years

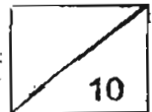
29. Triangle P and Q has an area of 24 cm^2 and 42 cm^2 respectively. The length of AB is 6 cm. Given that Triangle R and Triangle S are symmetrical, what is the area of the Triangle S?



Ans: _____ cm^2

- 30 Alan scores an average of 2 goals in k number of soccer matches. William scores an average of 5 goals in the same number of matches as Alan. What is the average number of goals scored by the two boys?

Ans: _____





AI TONG SCHOOL

2011

CONTINUAL ASSESSMENT 1

PRIMARY 6

MATHEMATICS

Paper 2

DURATION : 1 h 40 min

DATE : 1 March 2011

INSTRUCTIONS

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

Follow all instructions.

Answer all questions.

You are allowed to use a calculator.

Name : _____ ()

Class : Primary 6 _____

Marks:

Paper 2	60
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Parent's Signature : _____

Date : _____

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

Do not write in this space

(10 marks)

- 1 Bee Leng had \$960 less than Kerri. After Bee Leng gave \$2400 to Kerri, the ratio of Bee Leng's money to Kerri's money became 1 : 3. How much did Bee Leng have in the end?

Ans: \$ _____

- 2 In a boutique, the number of dresses sold was 70. This was 40% more than the number of blouses sold. How many blouses were sold?

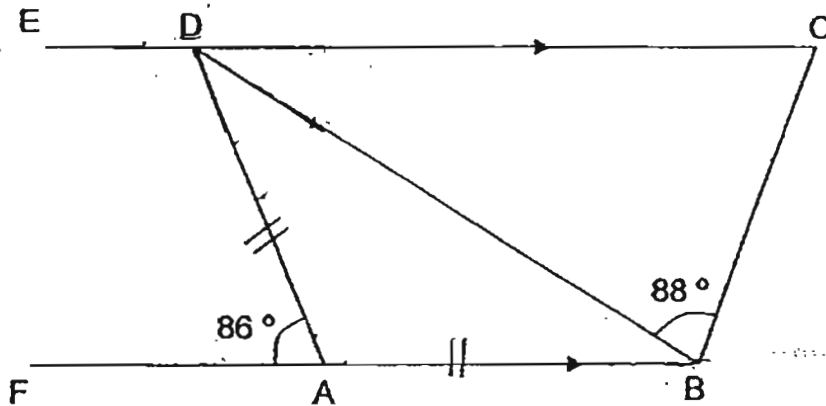
Ans: _____

3. For every \$8 Julie saved, Mrs Tang would top up \$3 into her bank account. After some time, the amount saved in Julie's account was \$528. How much did Mrs Tang contribute?

Do not write in this space

Ans: \$ _____

4. In the figure below, not drawn to scale, ABCD is a trapezium and ABD is an isosceles triangle. Find the size of $\angle BDE$.



Ans: _____

Do not write in this space.

5. $\frac{10}{11}$ kg of sugar is packed into little bags. If each bag can contain only $\frac{1}{7}$ kg of sugar, how much sugar is left unpacked?

(Give your answer as a fraction in the simplest form.)

Ans: _____ kg



Do not write in this space.

For questions 6 to 18, show your working clearly in the space provided for each question and write the answers in the spaces provided. The number of marks available is shown in the brackets [] at the end of each question or part-question. (50 marks)

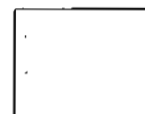
- 6 At a party, the ratio of the number of boys to the number of girls is 3 : 4. If each boy is given 2 stickers while each girl is given 3 stickers, 1080 stickers are needed. How many boys are at the party?

Ans: _____ [3]



- 7 Jeff has 45% as many sweets as Melvin and 40% fewer sweets than Alfred. If they have a total of 132 sweets, how many sweets does Jeff have?

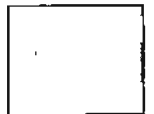
Ans: _____ [3]



- 8 Draw a trapezium PQRS such that $PQ = 4.6$ cm, $QR = 7$ cm, $\angle PQR = 130^\circ$ and $\angle QPS = 112^\circ$. Measure the length of PS.

Do not write in this space

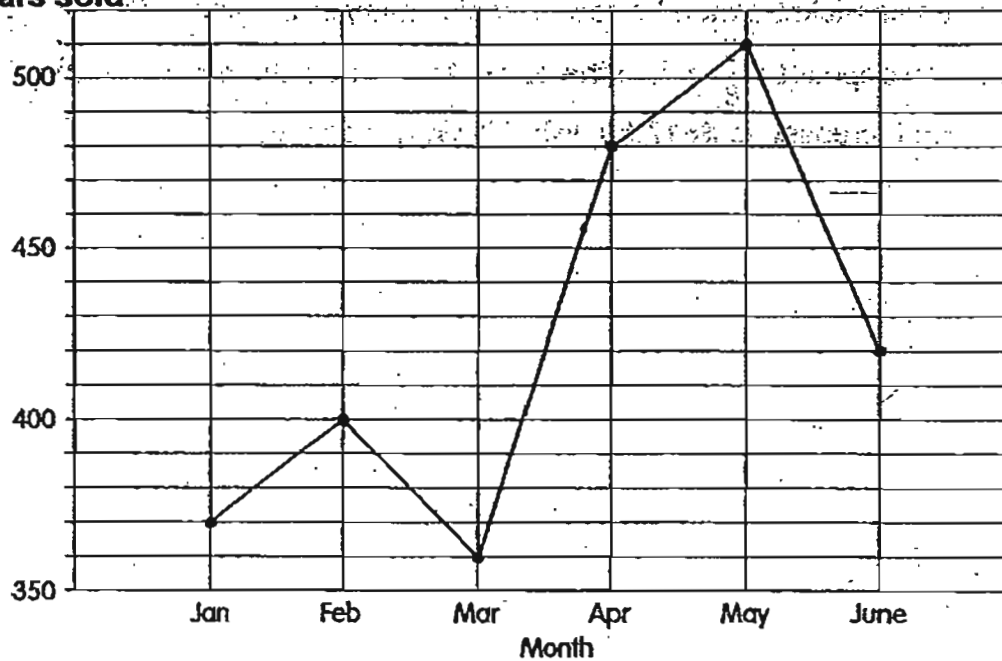
Ans: _____ [3]



- 9 The line graph below shows the number of cars sold in a showroom from January to June.

Do not write in this space

Number of Cars sold



- (a) In how many months was the sales less than 450 cars?
- (b) What percentage of the total number of cars sold was the number of cars sold in Jan and Feb? Round off the answer to 2 decimal places.

Ans: (a) _____ [1]

(b) _____ [2]



- 10 In the middle of the month, Gary withdrew $\frac{4}{5}$ of his money from the bank. He spent \$136 on a computer game and the remaining \$224 to buy a tennis racket. When he received his salary at the end of the month, he deposited $\frac{5}{8}$ of it in the bank. As a result, the amount in the bank was increased to \$817.50. What is Gary's salary?

Do not write in this space

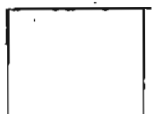
Ans: _____ [4]



- 11 In a survey, some pupils were asked if they preferred volleyball or table-tennis. $\frac{13}{20}$ of the pupils chose volleyball, 75% of the pupils chose table-tennis and 5% of the pupils did not choose any of the two sports. Given that 90 pupils chose both volleyball and table-tennis, how many pupils took part in the survey?

Do not write in this space

Ans: _____ [4]



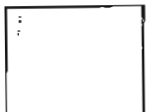
12 Jessica and Joe were buying sports gear at a mall where a discount of \$8 was given for every \$80 spent.

Do not write in this space

- a) Jessica picked up \$572 worth of sports gear. How much did she pay for them after the discount?
- b) If Joe paid the cashier \$864, how much discount did he get?

Ans: a) _____ [1]

b) _____ [3]



- 13 Xavier, Yew Ming and Zason bought a watch for their mother on her birthday. Xavier paid $\frac{1}{4}$ of what Yew Ming and Zason paid. Yew Ming paid $\frac{1}{5}$ of what Xavier and Zason paid. If Zason paid \$56 more than Yew Ming, how much did the watch cost?

Do not write in this space

Ans: _____ [4]



- 14 Amy's savings was 40% less than Baoyu's savings at first. After Amy donated \$52 and Baoyu donated \$60, Baoyu's savings became 5 times as much as Amy's. What was their total savings at first?

Do not write in this space

Ans: _____ [4]



- 15 Mrs Han baked 384 muffins in December. The ratio of the number of chocolate muffins to the number of butter muffins baked was 3 : 5. In January, the ratio of the number of chocolate muffins to the number of butter muffins baked was 7 : 4. If Mrs Han baked the same number of butter muffins in both months, how many more chocolate muffins did she bake in January than in December ?

Do not write in
this space

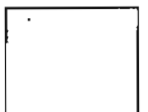
Ans: _____ [4]



16. Vanessa used some coloured beads to make a bag. 44% of the beads were red and the rest were either blue or yellow. The ratio of the number of blue to yellow beads used was 3 : 5. If she used 46 more red beads than blue beads, how many beads did she use in all?

Do not write in this space

Ans: _____ [4]



- 17 A coin box contained only twenty-cent and fifty-cent coins in the ratio of 4 : 5. When 16 fifty-cent coins were taken out and replaced by some twenty-cent coins, the number of fifty-cent coins left in the box was $\frac{7}{8}$ of the twenty-cent coins. The total value of all the coins remained the same. Find the sum of money in the coin box.

Do not write in this space

Ans: _____ [5]



18

Do not write in
this space

- (a) If Jason adds 1 to the numerator of a fraction, the fraction becomes one whole. If he adds 4 to the denominator, the fraction becomes $\frac{1}{2}$. What is the fraction?

Ans: a) _____ [3]

- (b) The numbers 1 to 500 are written in columns as shown:

A	B	C	D	E
1	2	3	4	5
9	8	7	6	
	10	11	12	13
17	16	15	14	
	18	19	20	21
25	24	23	22	
	26

If this pattern continues, in which column will the number 500 be written?

b) _____ [2]



END OF PAPER
CHECK YOUR WORK CAREFULLY!

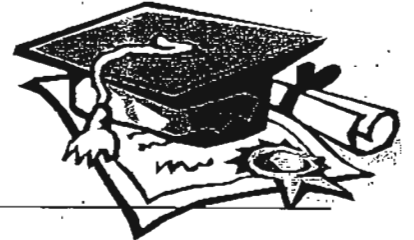


ANSWER SHEET

EXAM PAPER 2011

**SCHOOL : AITONG PRIMARY
SUBJECT : PRIMARY 6 MATHEMATICS**

TERM : CA1

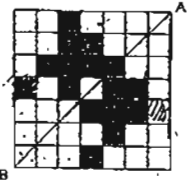


Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
2	2	2	3	4	3	3	3	4	2	2	2	2	3	1

16)0.56 17)70070 18)125cm³ 19)9 covers 20)1800

21)8:3 22)11 23)\$7.70 24)5 25)

26)30 27)8:9 28)20 29)33cm² 30)3.5



Paper 2

1)\$2880 2)50 3)\$144 4)137° 5)4/77kg

6)180 boys 7)27 8) 9)a)4
b)30.31%

10)\$1164 11)200

12)a)\$516
b)\$96

13)\$120

14)\$160

15)276

16)200

17)\$112.20

18)a)5/6
b)D

