



AI TONG SCHOOL

2008

SEMESTRAL ASSESSMENT 1

PRIMARY 5

MATHEMATICS Paper 1 (Booklet A and B)

DURATION : 50 min

DATE : 7 May 2008

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 5 _____

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 In 683 291, which digit is in the ten thousands place?

- (1) 6
- (2) 2
- (3) 3
- (4) 8

2 50 ten thousands + 5 thousands + 5 ones = _____

- (1) 50 505
- (2) 55 055
- (3) 505 005
- (4) 505 505

3 Which of the following is the correct numeral for the statement below?

Eight hundred and eight thousand, eight hundred and eight

- (1) 808 088
- (2) 808 808
- (3) 880 088
- (4) 880 808

4 Find the value of $\frac{4}{9} \times 54$.

- (1) 16
- (2) 20
- (3) 24
- (4) 28

- 5 $\frac{2}{5}$ of the people at a concert are children. $\frac{1}{4}$ of the children are boys.

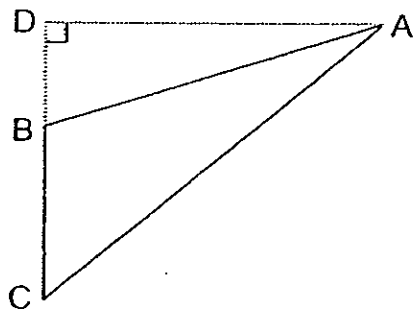
What fraction of the people at the concert are boys?

- (1) $\frac{1}{3}$
- (2) $\frac{1}{10}$
- (3) $\frac{3}{20}$
- (4) $\frac{13}{20}$

- 6 The ratio of the number of apples to the number of pears at a fruit stall is 5 : 7. If there are 21 pears, how many apples and pears are there?

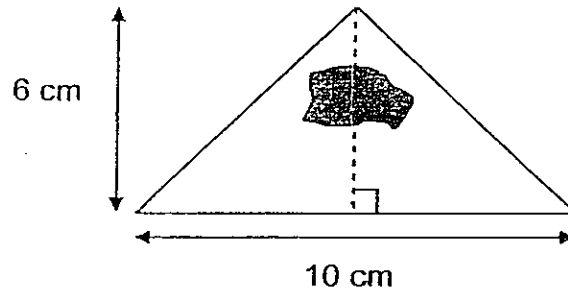
- (1) 15
- (2) 36
- (3) 42
- (4) 105

- 7 In the figure below, if AD is the height of the triangle ACD, which line is its base?



- (1) AB
- (2) BC
- (3) BD
- (4) DC

- 8 The area of the shaded portion is 5 cm^2 . What is the area of the remaining portion of the triangle?



- (1) 25 cm^2
(2) 30 cm^2
(3) 35 cm^2
(4) 55 cm^2
- 9 Bag X weighs 4.8 kg. Bag Y is 0.375 kg heavier than Bag X. What is the total mass of the two bags?
- (1) 4.425 kg
(2) 5.175 kg
(3) 9.225 kg
(4) 9.975 kg
- 10 $40 \div (12 - 8) \times 2 = \underline{\hspace{2cm}}$
- (1) 1
(2) 5
(3) 8
(4) 20
- 11 John and Peter have 56 stamps. John has thrice as many as Peter. How many stamps does Peter have?
- (1) 12
(2) 14
(3) 28
(4) 42

- 12 Edwin's salary is $\frac{3}{4}$ of Julia's salary. Julia's salary is $\frac{1}{2}$ of Tim's salary. Express Tim's salary as a fraction of Edwin's salary.

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

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

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

(4) $\frac{8}{3}$

- 13 1 durian cost 3 times as much as a mango. Mrs. Wong spent $\frac{3}{7}$ of her money on some mangoes and $\frac{1}{4}$ of her remaining money on 3 durians. How many mangoes did she buy?

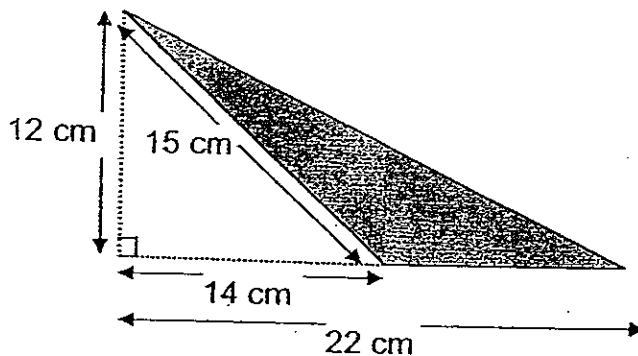
(1) 12

(2) 27

(3) 36

(4) 63

- 14 Find the area of the shaded triangle.



(1) 48 cm^2

(2) 90 cm^2

(3) 132 cm^2

(4) 264 cm^2

- 15 The ratio of Sandy's stickers to Jean's stickers is 9 : 2. If Sandy has 63 more stickers than Jean, find their total number of stickers.

(1) 66

(2) 77

(3) 88

(4) 99

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 The price of an apartment is \$680 000 when rounded off to the nearest \$1000. What could the lowest price of the apartment be?

Ans: \$ _____

- 17 Use all the digits given to form the biggest **odd** number.

8

5

0

2

3

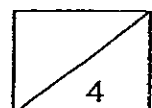
Ans: _____

- 18 Sally spent $\frac{1}{5}$ of her money on a bag and $\frac{1}{2}$ of the remainder on a shirt. What fraction of her money did she spend on the two items? (Express your answer in the simplest form.)

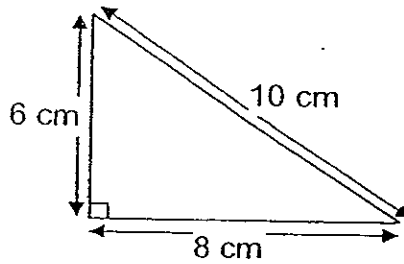
Ans: _____

- 19 At an adventure camp, $\frac{9}{20}$ of the campers were boys and the rest were girl. There were 20 more girls than boys. How many campers were there at the camp?

Ans: _____



20 Find the area of the triangle.



Ans: _____ cm²

21 Mother gave $\frac{7}{8}$ of a pizza to her 3 children to share equally. What fraction of the pizza did each child get?

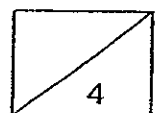
Ans: _____

22 Write the value of $\frac{2}{100} + \frac{6}{10} + 5 + \frac{9}{1000}$ as a decimal.

Ans: _____

23 The number of Fanny's stickers is $3\frac{1}{2}$ times Dolly's stickers. What is the ratio of Fanny's stickers to Dolly's stickers?

Ans: _____

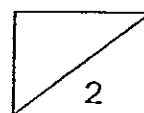


- 24 Kelvin spent $\frac{5}{8}$ of his money on a refrigerator and gave $\frac{1}{6}$ of the remainder to his mother. If he had \$600 left, how much did he give to his mother?

Ans: \$ _____

- 25 Evaluate $(65 - 32 \div 4) - 12 \times 3$

Ans: _____



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 Kathy opens a book and notes the page numbers of the facing pages. The product of the two numbers is 420. What are the page numbers of the facing pages?

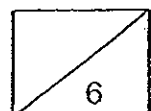
Ans: _____ and _____

- 27 Mr Lee bought a printer for \$399. He also purchased 5 similar printer cartridges. He paid the cashier \$600 and received a change of \$41. How much did he pay for each printer cartridge?

Ans: \$ _____

- 28 Ted and Alvin shared some picture cards in the ratio 5 : 2. If there are 91 picture cards altogether, how many picture cards did Ted get?

Ans: _____



29 Using digits from 0 to 9, find digits A and B such that

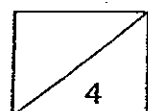
$$\begin{array}{r}
 \boxed{A} \boxed{B} \\
 + \quad \quad \boxed{B} \\
 \hline
 \boxed{B} \boxed{A} \\
 \hline
 \end{array}$$

Ans: A: _____

B: _____

30 Ali had $\frac{2}{5}$ as many toy cars as Chandra. After Ali received 37 toy cars and Chandra received 16 toy cars, both boys had an equal number of toy cars. How many toy cars did they have altogether at first?

Ans: _____





AI TONG SCHOOL

2008
SEMESTRAL ASSESSMENT 1
PRIMARY 5

MATHEMATICS
Paper 2

DURATION : 1 h 40 min

DATE : 7 May 2008

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 5 _____

Marks:

Paper 2	60
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Parent's Signature : _____

Date : _____

Paper 2

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. (10 marks)

- 1 If I divide some balloons among 15 children, each child gets 20 balloons. If I divide the same number of balloons among 10 children, how many balloons will each child get?

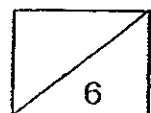
Ans: _____

- 2 Gopal and Ravi had a total of \$328. If Gopal gave Ravi \$38, Ravi would have thrice as much money as Gopal. How much money had Gopal at first?

Ans: \$ _____

- 3 Mrs Lim baked 504 butter cookies and sold them in jars of 28. Each jar of cookies was sold at \$11.40. How much did she earn?

Ans: \$ _____

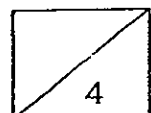


- 4 Mark and Paul shared some sweets in the ratio 5 : 8. If Paul were to give Mark 15 sweets, both of them would have the same number of sweets. How many sweets had Mark at first?

Ans: _____

- 5 There are some apples, oranges and pears in a basket. The ratio of apples to oranges is 1 : 3 and the ratio of apples to pears is 2 : 9. Find the ratio of oranges to pears.

Ans: _____



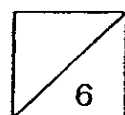
For questions 6 to 18, show your working clearly in the space provided for each question and write the answers in the spaces provided.
The number of marks available is shown in the brackets [] at the end of each question or part-question. (50 marks)

- 6 Three friends went shopping together. Tom and May spent \$148 altogether. Tom and Roy spent \$256 altogether. If Roy spent 4 times as much as May, how much did Tom spend?

Ans: _____ [3]

- 7 A container has red, yellow and blue beads in it. Half of the beads are red and $\frac{1}{8}$ of the remaining beads are yellow, while the rest of the beads are blue. If there are 210 more blue beads than yellow beads, how many beads are there altogether?

Ans: _____ [3]

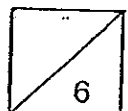


- 8 Vincent and Mei Ling had \$175 altogether. After they had given away $\frac{2}{5}$ of the total sum of money, Vincent had $\frac{7}{8}$ as much as Mei Ling. How much money must Mei Ling give to Vincent so that they will now have an equal amount of money?

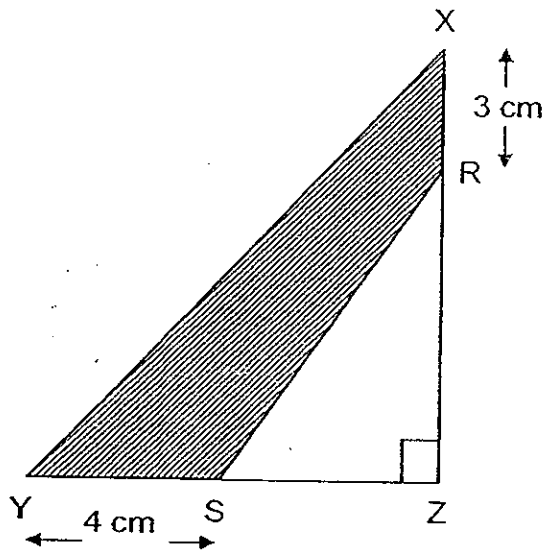
Ans: _____ [3]

- 19 A shop owner had some pens and rulers in the ratio 3 : 7. He sold 48 pens and bought another 48 more rulers. He then had as many pens as rulers. How many pens had he at first?

Ans: _____ [3]



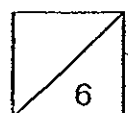
- 10 In Triangle XYZ below, $XZ = YZ = 9$ cm.
Find the area of the shaded part of the triangle XYZ.



Ans: _____ [3]

- 11 Bobby and Jack shared \$27 in a certain ratio. If each boy received \$4 more, the ratio of the amount of money that Bobby had to the amount of money that Jack had became 3 : 4. How much money did Bobby have at first?

Ans: _____ [3]

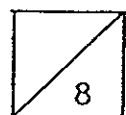


- 12 Jonathan paid \$30.25 for 5 files and 2 pencil cases. Each pencil case cost as much as three files. How much did a pencil case cost?

Ans: _____ [4]

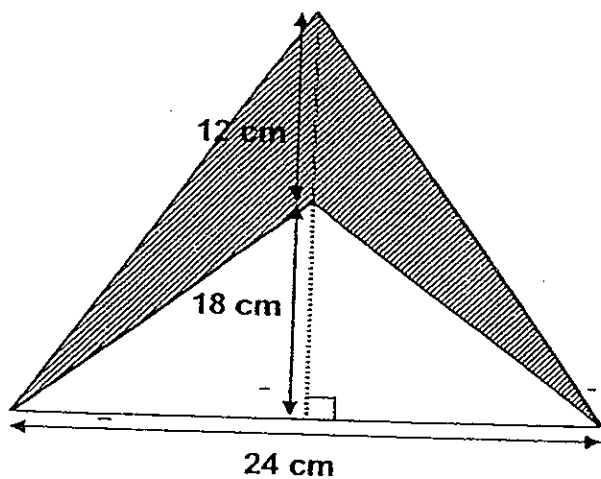
- 13 Bryan had some books. He gave Siti $\frac{2}{3}$ of the books he had. He gave Megan $\frac{1}{2}$ of the remaining books. If Bryan had 6 books left, how many books had he at first?

Ans: _____ [4]



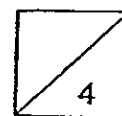
14 The figure below is not drawn to scale.

- a) What is the area of the **shaded part** of the figure?
- b) What fraction of the whole figure is shaded?



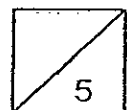
Ans: a) _____ [3]

Ans: b) _____ [1]



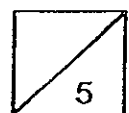
- 15 $\frac{2}{7}$ of the balls in a basket are red. There are 30 more blue balls than red balls. The remaining 90 balls are white. How many more blue balls than white ones are there?

Ans: _____ [5]



- 16 The body of a toy dinosaur is as long as its head and tail add together. The head of the toy dinosaur is 8 cm long. Its tail is as long as the head plus $\frac{1}{3}$ the length of its body. What is the length of the toy dinosaur?

Ans: _____ [5]



- 17 The table shows the postage rates for sending parcels to Country X by air.

Mass of Parcel	Postage
1st 5 kg	\$16
Per additional kg or part thereof	\$3

- a) Find the postage for a parcel which weighs 7.18 kg.
- b) A person pays \$40 for the postage. What is the heaviest possible mass of the parcel?

Ans: a) _____ [2]

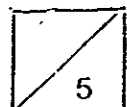
b) _____ [3]

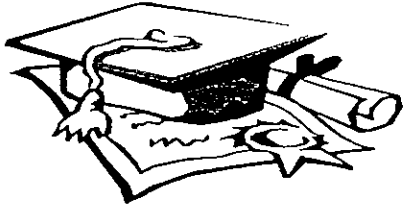
18 When a train departed from Bishan Station, $\frac{5}{11}$ of the passengers were children while $\frac{3}{4}$ of the adults were men. There were 4 times as many girls as boys, and 114 more men than women. At the next station, Ang Mo Kio Station, 9 women and 3 girls left the train.

- (a) How many people were there in the train when it departed from Bishan Station?
- (b) How many female passengers were on board the train when it departed from Ang Mo Kio Station?

Ans: a) _____ [3]

Ans: b) _____ [2]





ANSWER SHEET

EXAM PAPER 2008

SCHOOL : AITONG PRIMARY SCHOOL
SUBJECT : PRIMARY 5 MATHEMATICS

TERM : SA 1

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

16) \$679500

17) 85203

18) $3/5$

19) 200

20) 24

21) $7/24$

22) 5.629

23) $7:2$

24) 120

25) 21

26) 20, 21

27) 32

28) 65

29) A=8 B=9

30) 49

Paper 2

1) $15 \times 20 = 300$

$300 \div 10 = 30$

2) R

G		

 \$328

$\$328 \div 4 = \82

$\$82 + \$38 = \$120$

3) $504 \div 28 = 18$

$18 \times \$11.40 = \205.20

4) $8-5=3$

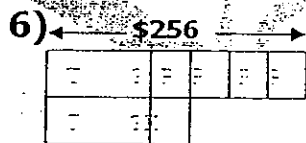
$3 \div 2 = 1\frac{1}{2}$

$1\frac{1}{2}u \rightarrow 15$

$1u \rightarrow 15 \div 1\frac{1}{2} = 10$

$5u \rightarrow 5 \times 10 = 50$

5) 2:3



\$148

$3u \rightarrow \$256 - \$148 = \$108$

$1u \rightarrow \$108 \div 3 = \36

Tom = $148 - \$36 = \112

7) $7-1=6u$

$6u = 210$

$1u = 210 \div 6 = 35$

$16u = 35 \times 16 = 560$

8) $\frac{2}{5} \times \$175 = \70

$\$175 - \$70 = \$105$

$7+8=15u$

$15u = \$105$

$1u = \$105 \div 15 = \7

$\frac{1}{2}u = \$7 \div 2 = \3.50



? 48

$2u = 48$

$1u = 48 \div 2 = 24$

$3u = 24 \times 3 = 72$

$$10) RZ = 9 - 3 = 6 \text{ cm}$$

$$SZ = 9 - 4 = 5 \text{ cm}$$

$$\text{Area of } \triangle RZS = \frac{1}{2} \times 6 \times 5 = 15 \text{ cm}^2$$

$$\text{Area of } \triangle XYZ = \frac{1}{2} \times 9 \times 9 = 40\frac{1}{2} \text{ cm}^2$$

$$\text{Area of shaded part} = 40\frac{1}{2} - 15 = 25\frac{1}{2} \text{ cm}^2$$

$$11) 3 + 4 = 7u$$

$$7u = \$27 + \$4 + \$4 = \$35$$

$$1u = \$35 \div 7 = \$5$$

$$3u = 3 \times \$5 = \$15$$

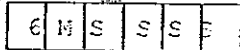
$$\text{Bobby} = \$15 - \$4 = \$11$$

$$12) 11u = \$30.25$$

$$1u = \$30.25 \div 11 = \$2.75$$

$$3u = 3 \times 2.75 = \$8.25$$

$$13) \leftarrow \quad ? \quad \rightarrow$$



$$1u = 6$$

$$6u = 6 \times 6 = 36$$

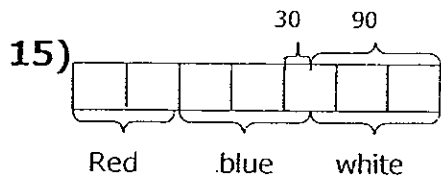
$$14) a) 12 + 18 = 30$$

$$\text{Area of big } \triangle = \frac{1}{2} \times 30 \times 24 = 360 \text{ cm}^2$$

$$\text{Area of small } \triangle = \frac{1}{2} \times 18 \times 24 = 216 \text{ cm}^2$$

$$\text{Shaded area} = 360 - 216 = 144 \text{ cm}^2$$

$$b) \frac{144}{360} = \frac{12}{30} = \frac{2}{5}$$



$$3u = 30 + 90 = 120$$

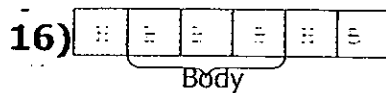
$$1u = 120 \div 3 = 40$$

$$2u = 2 \times 40 = 80$$

$$\text{Blue} = 80 + 30 = 110$$

$$\text{White} = 90$$

$$110 - 90 = 20$$



$$3B = 2H + B$$

$$2B = 2H$$

$$B = H$$

$$1u = 8$$

$$6u = 6 \times 8 = 48 \text{ cm}$$

17)a) $7.18 - 5 = 2.18$

$$\$3 \times 3 = \$9$$

$$\$9 + \$16 = \$25$$

b) $\$40 - \$16 = \$24$

$$\$24 \div \$3 = 8$$

$$8 + 5 = 13 \text{ kg}$$

18)a) $9 - 3 = 6u$

$$6u = 114$$

$$1u = 114 \div 6 = 19$$

$$22u = 22 \times 19 = 418$$

b) $8 + 3 = 11u$

$$11u = 11 \times 19 = 209$$

$$209 - 9 - 3 = 197$$