AI TONG SCHOOL

2009
SEMESTRAL ASSESSMENT 1
PRIMARY 5

MATHEMATICS
Paper 1
(Booklet A and B)

DURATION : 50 min

DATE : 14 May 2009

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)

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1 The number of spectators at a soccer match is 540 000 when rounded off to the nearest 1000 spectators. Which one of the following is the possible number of spectators at the match?

(1) 541 240
(2) 540 180
(3) 539 490
(4) 530 990

2 Find the value of 160 x 50.

(1) 80
(2) 800
(3) 8000
(4) 80 000

3 Find the value of 6 + 18 ÷ 3 x 2.

(1) 18
(2) 16
(3) 9
(4) 4

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

(1) 6
(2) 11
(3) 22
(4) 48

5 Find the value of $\frac{4}{5} \times \frac{3}{10}$.

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

(2) $\frac{11}{10}$

(3) $\frac{7}{15}$

(4) $\frac{6}{25}$

6 4 boys shared $\frac{5}{6}$ of a pizza equally. What fraction of the pizza did each boy get?

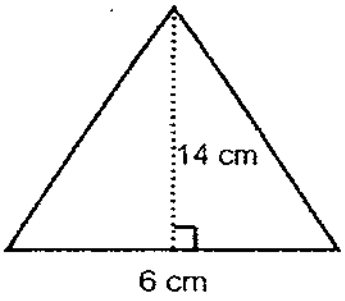
(1) $\frac{3}{10}$

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

(3) $\frac{5}{24}$

(4) $\frac{24}{5}$

7 What is the area of the triangle below?



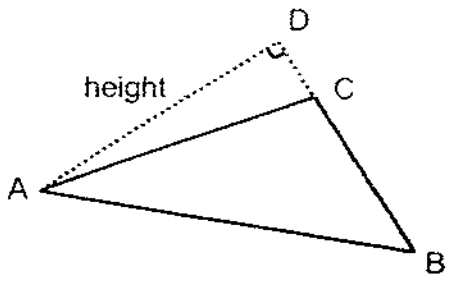
(1) 10 cm^2

(2) 20 cm^2

(3) 42 cm^2

(4) 84 cm^2

8 AD is the height of triangle ABC. What is the base of triangle ABC?



(1) BC

(2) AB

(3) AC

(4) BD

9 Sam is $\frac{2}{3}$ as old as Peter. What is the ratio of Peter's age to Sam's age?

(1) 2 : 3

(2) 3 : 2

(3) 2 : 5

(4) 5 : 2

10 The length of the sides of a triangle are in the ratio 2 : 3 : 5. The length of the shortest side is 10 cm. What is the length of the longest side?

(1) 15 cm

(2) 25 cm

(3) 50 cm

(4) 100 cm

11 The ratio of the length to the breadth of a rectangle is 3 : 2. The rectangle has an area of 96 cm^2. What is the breadth of the rectangle?

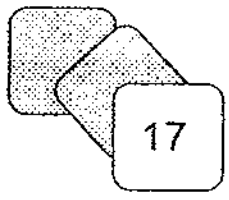
(1) 8 cm
(2) 12 cm
(3) 32 cm
(4) 48 cm

12 James spent $\frac{1}{5}$ of his pocket money on a pen. He spent $\frac{3}{8}$ of the remaining amount on a file. What fraction of his pocket money was spent on the file?

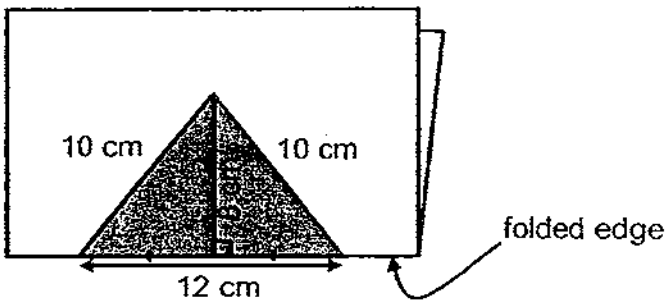
(1) $\frac{17}{40}$
(2) $\frac{4}{5}$
(3) $\frac{5}{8}$
(4) $\frac{3}{10}$

13 Each of the three cards shown is printed with a different whole number.
The smallest number is 17. When these numbers are added two at a time, the sums are 45, 69 and 80. What is the largest number on the cards?

(1) 25
(2) 28
(3) 52
(4) 63



14 Javier folded a rectangular piece of paper in half. He then cut out the shaded figure and opened it up. What is the area of the cut-out shape?



(1) 48 cm^2

(2) 96 cm^2

(3) 100 cm^2

(4) 120 cm^2

15 1 + 2 + 3 + 4 + ... + 94 + 95 + 96 + 97

When the first 97 whole numbers are added up, what is the digit in the ones place of this total?

(1) 7

(2) 2

(3) 3

(4) 8

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 Write two million, forty-eight thousand and five in figures.

Ans: _____

17 What is 100 000 less than 1 085 600?

Ans: _____

18 Evaluate $\frac{3}{4} - \frac{2}{5}$.

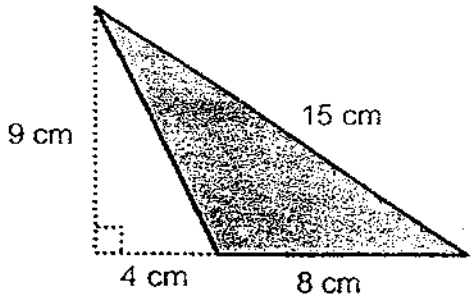
Ans: _____

19 Brenda baked a cake. She ate $\frac{1}{4}$ of it and cut the rest into 6 equal pieces. What fraction of the cake was each of the remaining pieces?

Ans: _____

4

20 The triangle is not drawn to scale. Find its shaded area.



Ans: _____ cm^2

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21 Cindy saved $30 and Randy saved $45. What is the ratio of Cindy's savings to Randy's savings? Give your answer in its simplest form.

Ans: _____

---

22 Swee Jin and Bryan shared 36 stickers in the ratio of 5 : 4. How many stickers did Swee Jin get?

Ans: _____

3

23 Arrange these fractions in increasing order : $\frac{3}{8}$, $\frac{3}{11}$, $\frac{3}{10}$

Ans: _____

---

24 For every cake that Mrs Lee bakes, she uses $\frac{3}{4}$ cup of flour.
How many cups of flour will she use to bake 12 cakes?

Ans: _____

---

25 135 x 58 = 135 x 60 – 135 x ☐
What is the missing number in the box?

Ans: _____

3

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 A box of picture cards was shared equally among a group of 30 pupils. 5 of them gave all their cards to the rest of the pupils. As a result, the rest of the pupils received 2 more cards each. How many cards were there in the box at first?

Ans: _____

---

27 Ben, Chris and David saved $85 in total. Ben and Chris saved $50 in total. Chris and David saved $63 in total. How much did Chris save?

Ans: $_____

4

28 Jun Bin had \$90. He spent $\frac{2}{5}$ of his money on a bag and $\frac{1}{3}$ of his money on a shirt. How much money did he spend on the two items?

Ans: \$_____

---

29 Andrew spent \$20 on 9 files and 4 pens. If the cost of 2 pens is the same as the cost of 3 files, find the cost of each pen.

Ans: \$_____

---

30 $\frac{3}{4}$ of a number is greater than $\frac{1}{2}$ of the number by 5.
What is the number?

Ans: _____

6

AI TONG SCHOOL

2009
SEMESTRAL ASSESSMENT 1
PRIMARY 5

MATHEMATICS
Paper 2

DURATION : 1 h 40 min

DATE : 14 May 2009

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

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)

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1 Mrs Bala divides 489 kg of flour into 4 kg and 3 kg packets. If Mrs Bala has 5 more 4 kg packets than 3 kg packets, how many 3 kg packets of flour does she have?

Ans: _____

---

2 Lilian and Susan each had an equal amount of money at first. After Lilian spent $19 and Susan spent $27, Lilian had twice as much as Susan. How much money did each have at first?

Ans: $_____

4

3 After selling $5\frac{3}{4}$ kg of salt, Mr Ong had $3\frac{1}{2}$ kg of salt left.
How much salt did he have at first? Express your answer in grams.

Ans: _____ g

---

4 $\frac{2}{5}$ of Roy's stamps is equal to $\frac{1}{3}$ of Janet's stamps. Janet has 16 more stamps than Roy. How many stamps does Roy have?

Ans: _____

---

5 There are 40 pupils in a class. 24 of them are boys.
Find the ratio of the number of boys to the number of girls in the class.

Ans: _____

6

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)

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6 Ahmad bought 3 magazines and a book. He paid $40 to the cashier and received $5 change. If the book cost twice as much as each magazine, find the cost of the book.

Ans: _____ [3]

---

7 When Edwin is 12 years old, his mother is 4 times as old as he.
How old will Edwin be when his mother is 3 times as old as he?

Ans: _____ [3]

---

8 There are 624 pupils in the hall. $\frac{5}{8}$ of them are boys and the rest are girls. How many more boys than girls are there?

Ans: _____ [3]

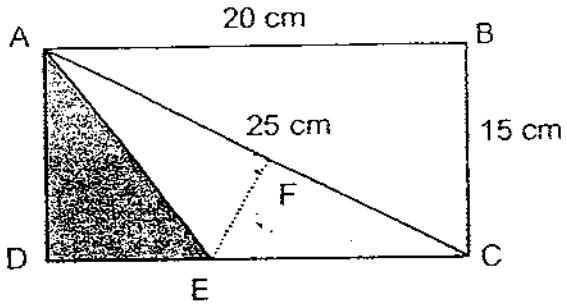
---

9 Ann had $310 and Bobby had $227. After they each spent an equal amount of money, Bobby had $\frac{2}{3}$ as much as Ann. How much did each of them spend?

Ans: _____ [3]

/6

10 In the figure below, not drawn to scale, ABCD is a rectangle. EF is 4 cm. Find the area of the shaded region.



Ans: _____ [3]

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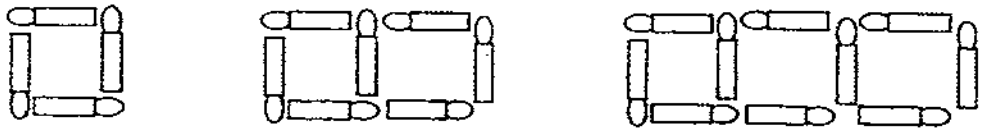
11 There are 3 types of muffins at a stall. $\frac{5}{12}$ of them are blueberry muffins. $\frac{4}{7}$ of the remainder are chocolate chip muffins and the rest are cheese muffins. If there are 152 more blueberry than cheese muffins, how many chocolate chip muffins are there?

Ans: _____ [3]

6

12 Study the pattern in the diagram shown below.

Pattern 1 Pattern 2 Pattern 3



a) Complete the table below.

Pattern Number	1	2	3	4
Number of matchsticks	4	7	10	?

b) How many matchsticks are there in Pattern 11?

c) Which pattern will have 76 matchsticks?

Ans: a) _____ [1]

b) _____ [1]

c) _____ [2]

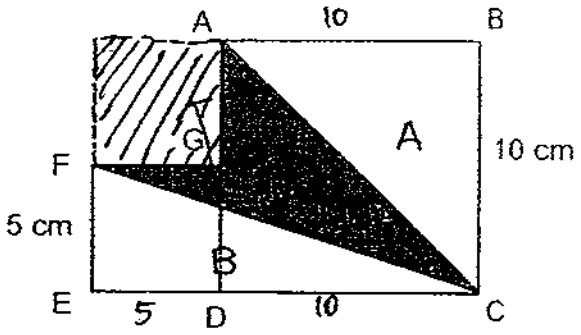
4

13 Melvin and Henry had an equal number of rubber bands. Each day, Melvin used 12 rubber bands and Henry used 9 more than he. When Henry had 26 rubber bands left, Melvin had 98 rubber bands left. How many rubber bands did each of them have at first?

Ans: _____ [4]

4

14 The figure below, not drawn to scale, is made up of two squares. Find the shaded area.



Ans: _____ [4]

15 Andy, Benny and Noel shared 7 boxes of marbles among themselves. Each box contained 56 marbles. Andy received 32 marbles while Noel received thrice as many marbles as the total number Andy and Benny received.

a) How many marbles did Benny receive?

b) If Benny were to get the same number of marbles as Noel, how many marbles must Noel give to Benny?

Ans: a) _____ [2]

b) _____ [3]

5

16 There are only Chinese and Malay children in a concert hall. The ratio of the number of girls to the number of boys is 3 : 2. The ratio of the number of Chinese boys to the number of Malay boys is 5 : 2. There are 126 more Chinese boys than Malay boys. How many girls are there in the concert hall?

Ans: _____ [5]

5

17 Devi had 26 more $5 notes than $10 notes. After paying $480 for a camera with some of the $5 notes, she had 6 times as many $10 notes as $5 notes.

a) How many $5 notes did Devi have at first?

b) How much money did Devi have left?

Ans: a)_____[3]

b)_____[2]

5

18 Kristen had some pocket money. She spent $85 on food and $45 on transport. After that, she spent $\frac{2}{7}$ of the remaining pocket money on 4 books. As for the rest of the money, she gave $\frac{2}{5}$ of it to her sister and had $75 left.

a) How much did each book cost?

b) How much pocket money did she have at first?

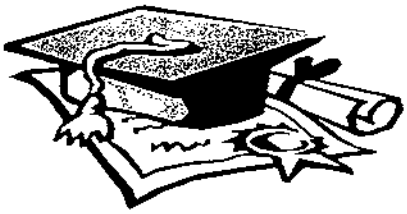
Ans: (a)_____ [3]

(b)_____ [2]

5

End of Paper

--- CHECK YOUR WORK CAREFULLY ---

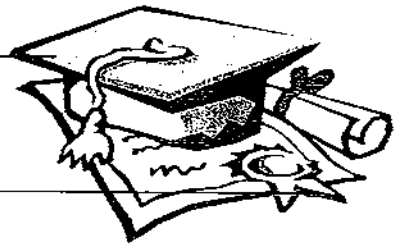


ANSWER SHEET

EXAM PAPER 2009

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
2	3	1	3	4	3	3	1	2	2	1	4	3	2	3

16)2048005 **17)985600** **18)7/20** **19)1/8**

20)36cm$_2$ **21)2:3** **22)20 stickers**

23)3/11, 3/10, 3/8 **24)9 cups of flour** **25)2**

26)300 picture cards **27)$28** **28)$66** **29)$2** **30)20**

Paper 2

1)67 packets	**2)Difference→27-19=8** **2 units→8x2=16** **16+19=$35**
3)5¾→1000÷4=250 **250x3=750** **750+5x1000=750+5000** **=5750** **3½→1000÷2=500** **500+3x1000=500+3000** **=3500** **Total→5750+3500=9250g**	**4)1 unit→16** **5 units→16x5=80 stamps**

5)girls→40-24=16 Boys : girls 24 : 16 = 6 : 4 = 3 : 2	6)Difference→40-5=35 3 units +2 units =5 units 5 units→35 1 unit→35÷5=7 2 units→2x7=$14
7)18 years old	8)8 units→624 1 unit→624÷8=78 8 units- 5 units=3 units 3 units→78x3=234 (girls) 5 units→78x5=390 Difference→390-234 =156 more boys
9)Difference→310-227=83 83x3=249 Difference→310-249=$61	10) ½ x 20 x 15=150 ½ x 4 x25=50 Difference→150-50=100cm_2
11)5 units – 3 units→ 2 units 2 units→152 1 unit→152÷2=76 4 units→76x4 =304 chocolate chip muffins	12)a)13 matchsticks b)34 matchsticks c)pattern 25
13)194 rubber bands	14)Area of △ A→½ x10x10=50 Area of △ B→½x5x15=37.5 37.5+50=87.5 Area of □→10x(5+10) =10x15=150 Difference→150-87.5=62.5 5x5=25 62.5-25=37.5cm_2

15)a)Total amount of marbles →7x56=292 32x4=128 Difference→392-128=264 4 units→264 1 unit→264÷4=66marbles b)Noel→66+66+66+32+32+32 =294 Difference→294-66=228 2 units→228 1 unit→228÷2=114 marbles	16)5 units – 2 units = 3 units 3 units→126 1 unit→126÷3=42 7 units→42x7=294 2 units→294 1 unit→294÷2=147 3 units→147x3=441 girls
17)a)$480÷5=96 5u→96-26=70 1u→70÷5=40 (14x6) ÷26=110 b)$910	18)a)3 units→75 1 unit→75÷3=25 5 units→25x5=125 5 units→125 1 unit→125÷5=25 2 units→25x2=50 50÷4=$$12.50 b)25x7=175 175+85+45=$305