

AI TONG SCHOOL 2010 SEMESTRAL ASSESSMENT 1 PRIMARY 5

MATHEMATICS Paper 1

DATE	: 11 MAY 2010
Follow all	FIONS en the booklet until you are told to do so. instructions. Il questions. ot allowed to use a calculator.

DURATION: 50 min

Date

Class : Primary 5 (_)
·	
Parent's Signature:	

Paper 1	40
Paper 2	60
Total	100

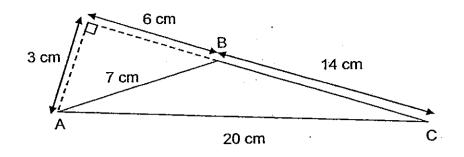
Booklet A

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 What is the best estimate for 352 ÷ 28?
 - (1) 300 ÷ 30
 - (2) $360 \div 30$
 - (3) 350 ÷ 20
 - (4) 360 ÷ 20
- 2 $333 \cdot 333 = 300 \cdot 000 + 30 \cdot 000 + 3000 +$ What is the missing number in the box?
 - (1) 333
 - (2) 303
 - (3) 3
 - (4) 33
- In which number below does the digit 7 have the smallest value?
 - (1) 175 625
 - (2) 261 706
 - (3) 397 124
 - (4) 710 543

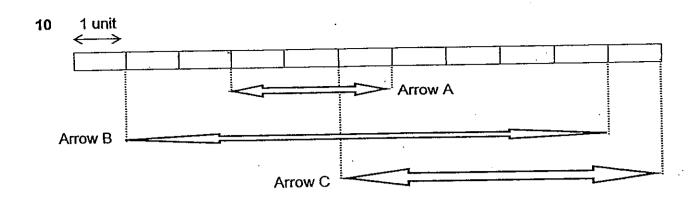
- 4 $\frac{5}{9} \div 7$ is the same as _____.
 - (1) $\frac{5}{9} \div \frac{1}{7}$
 - $(2) \qquad \frac{5}{9} \times \frac{7}{1}$
 - $(3) \quad \frac{5}{9} \times \frac{1}{7}$
 - $(4) \qquad \frac{9}{5} \times \frac{1}{7}$
- 5 $\frac{1}{4}$ of a number is 24. What is the number?
 - (1) 6
 - (2) 12
 - (3) 48
 - (4) 96
- 6 Sean had some sweets. After he ate 9 sweets, he had 45 sweets left. What fraction of his sweets did he eat?
 - (1) $\frac{1}{5}$
 - (2) $\frac{1}{6}$
 - (3) $\frac{4}{5}$
 - (4) $\frac{5}{6}$

7



Find the area of the triangle ABC.

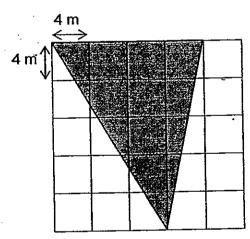
- (1) 21 cm²
- (2) 30 cm²
- (3) 49 cm²
- (4) 70 cm²
- 8 Find the value of $56 + 32 \div 8 2 \times 5$.
 - (1) 21
 - (2) 45
 - (3) 50
 - (4) 56
- 9 The length and the breadth of a rectangle are 8 cm and 6 cm respectively. Find the ratio of its length to its perimeter.
 - (1) 1:6
 - (2) 2:7
 - (3) 3:4
 - (4) 4:7



The ratio of the length of Arrow C to Arrow B to Arrow A is ___: ___: ___.

- (1) 2:3:1
- (2) 1:3:2
- (3) 3:1:2
- (4) 2:1:3

11



The shaded triangle is drawn on a square grid. What is the area of the **shaded** figure above?

- (1) 480 m²
- (2) 240 m²
- (3) 160 m²
- (4) 80 m²

- Ellie has $\frac{1}{3}$ as many paper clips as Frank and twice as many as Gillian. Which one of the following statements is correct?
 - (1) Frank has 6 times as many paper clips as Ellie.*
 - (2) Gillian has $\frac{1}{3}$ as many paper clips as Frank χ
 - (3) Gillian and Ellie have $\frac{1}{2}$ as many paper clips as Frank.
 - (4) Frank has $\frac{1}{2}$ as many paper clips as Gillian.
- Find the area of the **unshaded** part in the rectangle below. The figure is not drawn to scale.

5 cm

12 cm

- (1) 60 cm²
- (2) 40 cm²
- (3) 30 cm²
- (4) 24 cm²

- After a roll of wire was used to make 6 identical squares of sides 9 cm, there were 38 cm of wire left. How long was the roll of wire at first?
 - (1) 92 cm
 - (2) 216 cm
 - (3) 254 cm
 - (4) 524 cm
- 15 $\frac{1}{2}$ of Rachel's age is equal to $\frac{3}{4}$ of Sam's age. What is the ratio of Sam's age to Rachel's age?
 - (1) 3:1
 - (2) 3:2
 - (3) 2:3
 - (4) 2:1

Booklet B

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

Arrange the numbers below to form the smallest 5-digit number which is divisible by 2.

0

3

7

6

5

Ans:	<u>:</u>	

17 2 thou of paint are needed to paint an area of 5 m². How much paint is needed to paint a wall that is 3 m long by 10 m high?

Ans: _____ *l*

Mrs Lim bought 3 ℓ of apple juice. She drank $\frac{1}{5}$ ℓ of apple juice daily. How many days did she take to finish all the apple juice?

Ans: _____days



19
$$-4\frac{4}{5} = 7\frac{1}{3}$$
.

What is the missing fraction? Express your answer in the simplest form.

Ans:	<u> </u>			
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One packet of flour weighs 840 g. What is the mass of 16 packets of flour?

Round off your answer to the nearest kilogram.

Ans:	•	٠.	k
			•

21 Express the ratio of \$3 to 50 cents in the simplest form.

Ans:	
------	--

The mass of Adam, Ben and Charles is in the ratio 3:2:4. If Ben's mass is 18 kg, what is the total mass of Adam and Charles?

	lee-
Vuc.	kg
Ans:	

Ans:

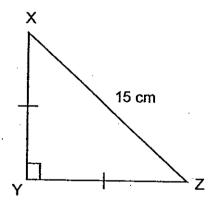
24



The rectangle shown above is divided into 12 smaller triangles of the same size. How many more triangles have to be shaded so that $\frac{3}{4}$ of the rectangle is shaded?

Ans:

25

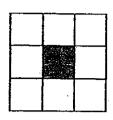


The perimeter of triangle XYZ which is not drawn to scale is 35 cm. XY = YZ. What is the area of triangle XYZ?

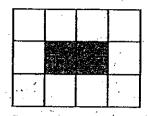
Ans: ____cm²

	·	give your answers in the units stat	
5	What is the product of all the	e common factors of 30 and 48?	
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8	•	$\frac{5}{2}$ full. What is the capacity of the	<i>t</i>
28	•	he $\frac{5}{8}$ full. What is the capacity of the	<i>t</i>
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28	•	he $\frac{5}{8}$ full. What is the capacity of the	ne tank?
28	•	the $\frac{5}{8}$ full. What is the capacity of the	ne tank?

29 If this pattern continues, how many white squares are there in pattern 24?



Pattern 1



Pattern 2



Pattern 3

	•	
_		
Ans:		
A113.		

Hazel and her 5 friends shared a pizza equally for dinner. If Hazel gave away $\frac{2}{3}$ of her share, what fraction of the pizza had she left?

Ans.





AI TONG SCHOOL

2010 SEMESTRAL ASSESSMENT 1 PRIMARY 5

MATHEMATICS Paper 2

DATE	: 11 MAY 2010
INSTRUC Do not op	en the booklet until you are told to do so.
Follow al	nstructions.
Answer a	questions.
V	owed to use a calculator.

DURATION: 1 h 40 min

Name	:	(:
Class	: Primary 5	Marks:	Paper 2	60
Parent Date	's Signature :	-		. :

Paper 2

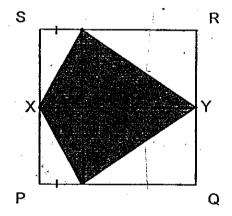
Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided.

For questions which require units, give your answers in the units stated. (10 marks)

1 Chelsea has 588 stickers and Sarah has 208 stickers. How many stickers must Chelsea give to Sarah so that they each have the same number of stickers?

Ans:

PQRS is a square. X and Y are the midpoints of SP and RQ respectively. What fraction of the square is the shaded part?



Ans:

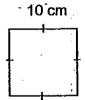
 $\frac{2}{5}$ of Jamie's money is equal to $\frac{1}{2}$ of Chermaine's money. What fraction of the total amount of money is Jamie's money?

Ans:

John had $\frac{3}{7}$ of his salary left after giving his parents \$880. How much was his salary?

Ans: \$_____

5





The ratio of the area of the square to that of the rectangle is 5 : 4. What is the length of the rectangle?

Ans: ____cr

	-question. 		·	provided. lown in the br		at the effo	oi each qu (50)	estion) mark
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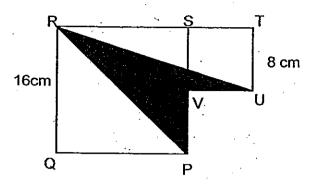
Aisha has 9 times as much money as Meili. If Aisha has \$1080, how much must she give to Meili so that Meili will have $\frac{1}{2}$ of what she has?

Ans: _____[4

Four containers A, B, C and D contained a total of 230 buttons at first. Then the number of buttons in A was increased by 55, the number in B was decreased by 15, the number in C was doubled and the number in D was halved. As a result, the number of buttons in each container was the same. Find the number of buttons in container D at first.

Ans: _____[4

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



Ans: _______[4

Sandra had twice as many apples as oranges at first. She removed 4 apples and 3 oranges each time. In the end, there were 18 apples and 1 orange left. How many fruits did Sandra have at first? [5]

- In Sunshine Home, the ratio of the number of men to the number of women is 4 : 1. In Joyful Home, the ratio of the number of men to the number of women is 2 : 3. Sunshine Home has twice as many people as Joyful Home.
 - (a) Find the ratio of the number of men in Sunshine Home to the number of women in Joyful Home.
 - (b) After 40 women left Sunshine Home to join Joyful Home, the ratio of the number of men to the number of women in Joyful Home becomes 1:2. How many women are there in Joyful Home in the end?

Ans: a)_	_	[2]
b)	· .	 [3]
•	•	 •

4 boys and 2 girls sold 2400 tickets at a fun fair. The 2 girls sold twice as many 17 tickets as the 4 boys. Each boy sold the same number of tickets. The first girl sold 3 times as many tickets as the second girl. (a) How many tickets did each boy sell?

(b) How many tickets were sold by the first girl?

Ans: a):



Benjamin spent $\frac{1}{4}$ of his salary on books and $\frac{3}{5}$ of the remainder on a computer. He then spent \$180 on food and \$100 on transport. He gave the remaining \$260 to his mother. How much was his salary?

Ans: [5]

5

End of Paper

- CHECK YOUR WORK CAREFULLY -



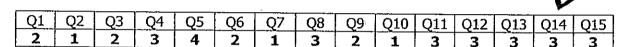
ANSWER SHEET

EXAM PAPER 2010

SCHOOL: AI TONG PRIMARY

SUBJECT: PRIMARY 5 MATHEMATICS

TERM : SA1



16)30576

17)12L

18)15days

19)122/15

20)13kg

21)6:1

22)63kg

23)15

24)5

25)50cm₂

26)36

27)354

28)56L

29)54

30)1/18

Paper 2

$1)588 - 208 = 380$ $380 \div 2 = 190$	$2)1 \div 2 = \frac{1}{2}$
3)5 + 4 = 9 5 \div 9 = 5/9	4)880 ÷ 4 = 220 220 x 7 = \$1540
5)100 ÷ 5 x 4 = 80cm 80 ÷ 5 = 16cm	6)60 + 6 = 66 66 ÷ 6 = 11 11 - 6 = 5 60 - 5 = 55
7)8 x 16 = 128 $128 \div 4 = 32$ 32 + 1 = 33	8)27 – 18 = 9kg 9÷2 = 4.5kg 18 – 4.5 = 13.5kg
9)160 \div 4 = 40 40 x 3 = 120 120 + 32 = 152 160 + 32 = 192 192 - 152 = 40 40 \div 192 = 5/24	10)145 ÷ 7 = 20R5 145 ÷ 9 = 16R1 20 x 7 + 5 = 145 16 x 9 = 1 = 145

11)22 = 18 = 40	12)1090 : 0 - 120
40 ÷ 5 = 8	$12)1080 \div 9 = 120$
8 x 7 =56	$120 \times 10 = 1200$
0 X / =30	$1200 \div 3 = 400$
	400 – 120 = \$280
13)230 - 15 + 55 = 270	14)16 x 16 = 256cm ₂
$270 \div 9 = 30$	$8 \times 8 = 64 \text{cm}_2$
$30 \times 4 = 120$	256 + 64 = 320cm ₂
	$\frac{1}{2} \times 16 \times 16 = 128 \text{cm}_2$
	$\frac{1}{2} \times 8 \times 24 = 96 \text{cm}_2$
	320 - 128 - 96 = 96cm ₂
15)8 x 7 = 56	16)a)8:3
56 + 18 + 1 = 75	b)160
17)a)2 x 2 = 4	$18)1 - \frac{1}{4} = \frac{3}{4}$
$2400 \div 3 = 800$	$3/4 \times 3/5 = 9/20$
800÷ 4 = 200	1/4 + 9/20 = 14/20
b) $800 \times 2 = 1600$	180 + 100 + 260 = \$540
$1600 \div 4 = 400$	$540 \div 6 = 90
$400 \times 3 = 1200$	90 x 20 = \$1800