# Anglo-Chinese School (Junior)



### SEMESTRAL ASSESSMENT 1 (2010) PRIMARY 5

#### **MATHEMATICS**

PAPER 1 Booklet A

Wednesday	12 May 2010	50 min
INSTRUCTIONS TO PUPILS		
DO NOT TURN OVER THE PA	AGES UNTIL YOU ARE TOLD TO	DO SO
Follow all instructions carefully	<i>.</i> .	
There are 15 questions in this	booklet.	
Answer ALL questions.		
You are not allowed to use a	calculator.	
Name :	( )	
Class : 5.( )	•	
-		. •
Parent's Signature:		
This question paper consist	ts of 7 printed pages. (Inclusive	of cover page)

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 Which of the following is seven hundred and three thousand and fifty-six in figures?
  - (1) 73 056
  - (2) 703 056
  - (3) 7 003 056
  - (4) 7 030 056
- 2 In 89 602, what does the digit 9 stand for?
  - (1) 9000 tens
  - (2) 900 tens
  - (3) 90 tens
  - (4) 9 tens
- Which of the following, when rounded off to the nearest hundred, is 40 000?
  - (1) 39 559
  - (2) 39 949
  - (3) 40 049
  - (4) 40 959
- 4 Express 30 seconds as a fraction of 2 minutes.
  - (1)  $\frac{1}{4}$
  - (2)  $\frac{1}{15}$
  - (3)  $\frac{3}{20}$
  - (4)  $\frac{2}{30}$

2

- The total length of two rods is  $2\frac{3}{4}$  m. If one rod is  $1\frac{1}{2}$  m long, what is the length of the other rod?
  - (1)  $\frac{1}{4}$  m
  - (2)  $\frac{3}{8}$  m
  - (3)  $1\frac{1}{4}$  m
  - (4)  $1\frac{3}{8}$  m
- 6 Find the value of  $\frac{3}{5} \div 6$ .
  - (1)  $\frac{2}{5}$
  - (2)  $\frac{18}{5}$
  - (3)  $\frac{33}{5}$
  - (4)  $\frac{1}{10}$

7 Denni used buttons of three different shapes to make a pattern. The first 12 buttons are shown below. What was the shape of the 38<sup>th</sup> button?



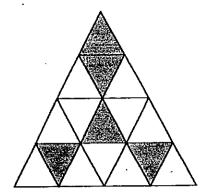
· (1)

(3)

(2)

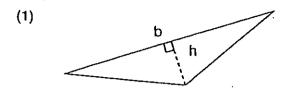
(4)

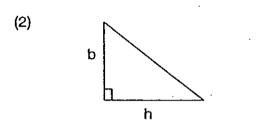
- 8 Find the ratio of the shaded parts to the unshaded parts.
  - (1) 5:11
  - (2) 5:16
  - (3) 11:5
  - (4) 11:16

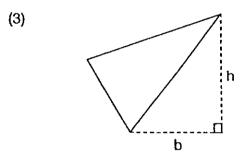


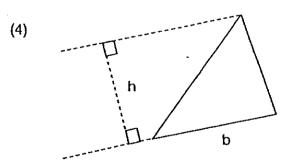
- A shopkeeper packed 1 kg of candy into three bags, X, Y and Z. If there were 200g of candy in Bag X and 300g in Bag Z, what is the ratio of the mass of candy in Bag X to the mass of candy in Bag Y to the mass of candy in Bag Z?
  - (1) 2:3:5
  - (2) 2:5:3
  - (3) 5:2:3
  - (4) 3:5:2
- 10 26 x 89 = 19 x 89 + 89 + x 89
  - (1) 1
  - (2) 2
  - (3) 5
  - (4) 6

Which of the following triangles does **not** have its height, h, and base, b, correctly matched?

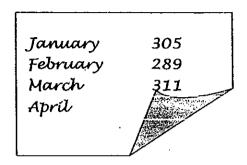






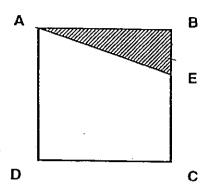


Amog wrote down the number of short messages he sent out from January to April. However, part of the paper was torn off. Which of the following is the best estimate for the missing number if Amos remembered the total was 1200 when rounded off to the nearest ten?



- (1) 289
- (2) 293
- (3) 300
- (4) 301
- Paul spent  $\frac{1}{3}$  of his money on a pair of jeans and  $\frac{2}{9}$  of it on a shirt. What fraction of his money had he left?
  - (1)  $\frac{4}{9}$
  - (2)  $\frac{5}{9}$
  - (3)  $\frac{1}{4}$
  - (4)  $\frac{3}{4}$
- 14 What is the missing number in 15:24 = : 40?
  - (1) 5
  - . (2) 8
    - (3) 25
    - (4) 31

In the figure below, ABCD is a square of area 81 cm<sup>2</sup>. The terigth of AB is 3 times the length of BE. What is the area of triangle ABE?



- (1) 9.0 cm<sup>2</sup>
- (2) 13.5 cm<sup>2</sup>
- (3) 27.0 cm<sup>2</sup>
- (4) 40.5 cm<sup>2</sup>

End of Booklet A

## Anglo-Chinese School (Junior)



### SEMESTRAL ASSESSMENT 1 (2010) PRIMARY 5

#### **MATHEMATICS**

#### PAPER 2

Wednesday

12 May 2010

1 hr 40 min

#### **INSTRUCTIONS TO PUPILS**

#### DO NOT TURN OVER THE PAGES UNTIL YOU ARE TOLD TO DO SO

Follow all instructions carefully.

There are 18 questions in this booklet.

Answer ALL questions.

You are allowed to use a calculator.

Name :		 (	)
Class : 5.(	)		-

Paper	Possible Marks	Marks Obtained
1	40	:
2	60	
TOTAL	100	

This question paper consists of 17 printed pages. (Inclusive of cover page)

Parent's Signature:\_\_

Ques For q	stions 16 to 25 carry 1 mark questions which require unit	each. Write your s, give your answ	answers in the space ers in the units stated.	s provided. (10 marks)
16	Use all the digits given to	form the greatest	: 6-digit odd number	•
	3 6	8	5 0 4	
			Ans:	
17	A piece of plank 3m long each piece?	is cut into 6 piece:	s of equal length. Wha	at is the length of
	•			
		_	Ans:	cm
18	Express $3\frac{2}{3}$ as a decimal $\frac{2}{3}$ .	correct to 2 decim	al places.	
		-		• .
			Ans:	
19	The length of a rectangle the perimeter of the recta	_	n is $\frac{2}{3}$ m shorter than t	he length. What is
٠.				
			Ans:	m
ACS(J)	J) 2010 P5 Math Paper 1B	2	Su	b-Total

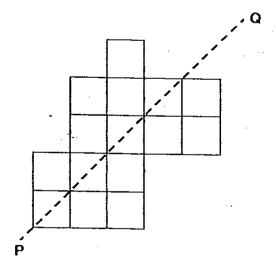
20 Mr Chong had  $2\frac{1}{2}$  kg of charcoal. He used  $\frac{8}{9}$  of it for a barbeque. How much charcoal did he use? (Give your answer in the simplest form.)

00:		
ns:		KO

To make purple paint, Jevon uses 4 tubes of red paint for every 7 tubes of blue paint. If he uses 28 tubes of red paint, how many tubes of blue paint does he use?

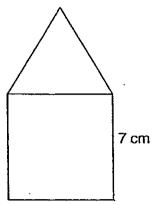
Ans:			
	<del></del>	 	 

The figure below shows 15 squares. What is the smallest number of squares that must be added so that the dotted line PQ is a line of symmetry?



Ans:	
------	--

The figure below is made up of a square and an equilateral triangle. What is its perimeter?

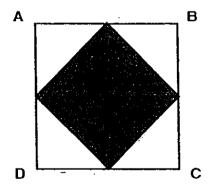


Ans: \_\_\_\_\_cm

In a basket, the ratio of the number of apples to the number of pears is 2:3. The ratio of the number of apples to the number of oranges is 4:5. What is the ratio of the number of oranges to the total number of fruits? (Give your answer in the simplest form.)

Ans:\_\_\_\_\_

Square ABCD has an area of 36 cm<sup>2</sup>. It is divided into 8 egual parts, as shown in the figure. What is the shaded area?



Ans:		cm²
	Sub-Total	-

	stion 26 to 30 carry 2 marks each. Show your working e spaces provided. For questions which require units, ged.		
26	A man is 3 times as old as his son now. 5 years ago will his son be in 3 years' time?	, he was 64 years old. How old	

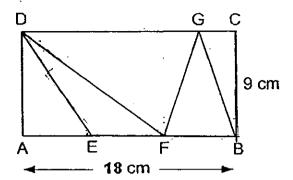
Anc-	
Ans:	

Samantha bought thrice as many pencils as rulers. Each pencil cost 30 ¢ and each ruler cost 50 ¢. She paid \$5.60 altogether. How many pencils did she buy?

What is the missing number in the box?

Ans: \_\_\_\_\_

In the figure, ABCD is a rectangle. If AE = EF = FB, what fraction of the figure is unshaded? (Give your answer in the simplest form.)



Ans: \_\_\_\_\_\_

Larry had 300 chicken wings. He sold  $\frac{2}{3}$  of them in the morning and  $\frac{1}{4}$  of the remainder in the afternoon. How many chicken wings did he sell altogether?

Ans: \_\_\_\_\_

End of Booklet B

Sub-Total

## Anglo-Chinese School (Junior)



### SEMESTRAL ASSESSMENT 1 (2010) PRIMARY 5

#### **MATHEMATICS**

PAPER 1 Booklet B

Wednesday

12 May 2010

50 min

**INSTRUCTIONS TO PUPILS** 

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Name :		(	. 1
Class : 5.(	i		
f .			

Booklet	Possible Marks	Marks Obtained
A	20	
В	20	
TOTAL	40	:

This question paper consists of 6 printed pages. (Inclusive of cover page)

Parent's Signature:\_\_

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

(10 marks)

1  $\frac{1}{8}$  of a number is 9. What is  $\frac{3}{4}$  of the number?

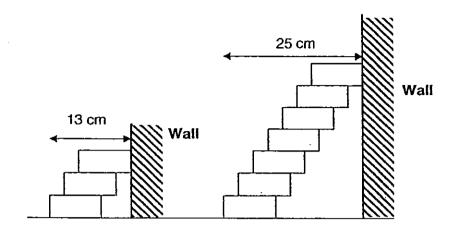
		*	
Ans:			
Alis	 		 

2  $\frac{1}{2}$  of Salleh's age is equal to  $\frac{1}{5}$  of Tim's age. If their total age is 84 years, how old is Tim?

Ans:\_\_\_\_\_

3	Mrs Rai has some stickers in a box. If s will have no stickers left over. If she put left over. What is the smallest possible	s them into bags of 7. st	re will have 2 stickers
,			
			•
:	•	Ans:	
4	Adam and Melvin saved \$800 altogethe	er. $\frac{1}{4}$ of Adam's savings	was \$65 more than
	$\frac{1}{5}$ of Melvin's savings. How much mone	ey did Melvin save?	
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, .		Ans: \$	
ACS(J)	2010 SA1 Math Paper 2	<u> </u>	Sub-Total

The figure below shows 2 stacks of identical wooden blocks. The blocks are stacked and glued one on top of another. Each block has the same length of overlap. The length of the first stack of 3 blocks is 13 cm. The length of the second stack of 7 blocks is 25 cm.



Find the length of a stack of 12 blocks arranged in the above manner.

Ans:		cm
	Sub-Total	

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

6 The table below shows the special package costs for flight to Timbucktooth Island.

Packag	e Priže
1 <sup>st</sup> and 2 <sup>nd</sup> persons	\$380 per person
3 <sup>rd</sup> and 4 <sup>th</sup> persons	\$260 per person
Child below age of 12	\$240 per child

Mr Eu went to Timbucktooth Island with his wife and three children aged 5, 7 and 14. How much did Mr Eu pay for the entire trip?

Ans:		[3]
	•	
	Sub-Total	

ACS(J) 2010 SA1 Math Paper 2

7	The ratio of Quages will be 78 years' time? (G	entin's a years. V ive your	ge to Ron Vhat will b answer in	ny's age is e the ratio the simple	5 : 4. In of Quenti est form.)	12 years' n's age to	time, the s Ronny's	sum of their age in 12	r
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ACS(J) 2	2010 SA1 Math Paper 2			6		;	Sub-Total		

. 8	Kay, Leo and Manny sha and Manny received \$40 received by Kay to the an (Give your answer in the	more than Kar nount received	y. What I by Leo	ie the ratio of t	ha amount of me	
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ACS(J) 20	010 SA1 Math Paper 2	7			Sub-Total	

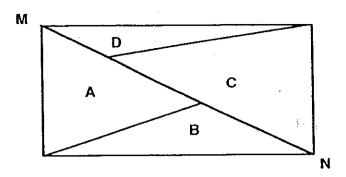
Alice baked some cakes.  $\frac{2}{3}$  of them were chocolate cakes,  $\frac{1}{4}$  of them were banana cakes and the rest were raisin cakes. There were 176 chocolate and banana cakes.

a) What fraction of the cakes were raisin cakes?

b) How many cakes did she bake in all?

Ans:		[1]
Ans:		[2]
	Sub-Total	· 

10 The figure below shows a rectangle that is divided into 4 parts A, B, C and D.



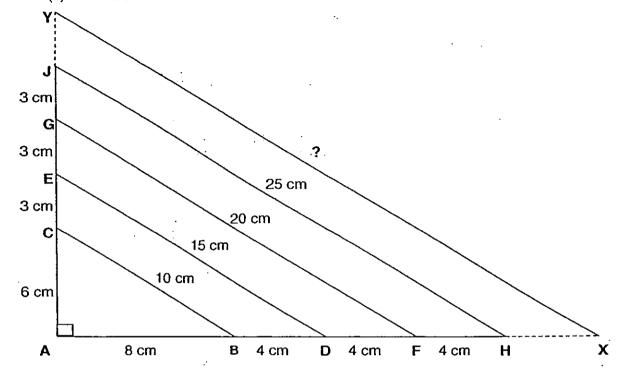
The line MN divides the rectangle into 2 equal parts. The ratio of Area A to Area B is 3:2 and the ratio of Area B to Area C is 1:2. Area D is 102.2 cm<sup>2</sup>. What is the area of the rectangle?

Ans:		[3]
,		
•	Sub-Total	

11	Davin spent some another 16 swordt did Davin spend a	money on 22 ails. Each swo ltogether?	guppies. He s rdtail cost 45	spent the sam ⊅ more than e	e amount of meach guppy. Ho	oney on w much	
		•					
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					•		
				Ans:		[4]	
				•			
ACS(Ĵ) 2	010 SA1 Math Paper 2		10		Sub-Total		

A farmer rears chickens in 3 pens. The number of chickens in the first pen is  $\frac{5}{8}$  of that in the second pen. The number of chickens in the third pen is  $\frac{3}{5}$  that of the first pen. If there are a total of 2800 chickens, how many more chickens are there in the second pen than the third pen? [4] Sub-Total ACS(J) 2010 SA1 Math Paper 2 -11

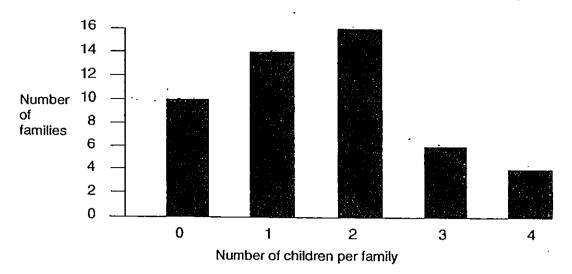
- 13 In the diagram below,  $\Delta 1$  is  $\Delta ABC$ ,  $\Delta 2$  is  $\Delta ADE$ ,  $\Delta 3$  is  $\Delta AFG$ ,  $\Delta 4$  is  $\Delta AHJ$ . BC = 10cm, DE = 15cm, FG = 20cm and HJ = 25cm.
  - (a) What is the area of ΔABC?
  - (b) What is the length of XY if  $\triangle AXY$  is  $\triangle 9$ ?
  - (c) What is the area of ΔΑΧΥ?



Ans: (a)	[1]
Ans: (b)	[1]
Anc: (a)	[2]

14	A delivery company delivered 100 teapot safely delivered, but it had during the delivery. In the end, Midelivery. How many teapots were	to pay Mr Te Teo only ne	eo \$5.90 for e eded to pay a	very teapot bro	kan	
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			Ans:		[4]	
	010 SA1 Math Paper 2 ,	13		Sub-Total	,	

15 The bar graph shows the number of children per family in Orchid Estate.

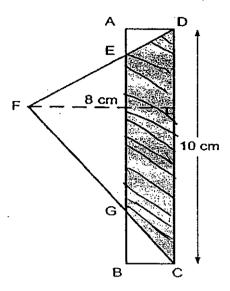


- (a) What is the total number of children in Orchid Estate?
- (b) What fraction of the families in Orchid Estate has fewer than 3 children?

Ans:	[2]
Ans:	[2]

Sub-Total

In the figure, ABCD is a rectangle, DC = 10 cm and the height of  $\Delta$ DFC is 8 cm. The area of the shaded part EGCD is  $\frac{5}{8}$  of the area of  $\Delta$ DFC. It is also  $\frac{5}{7}$  of the area of rectangle ABCD. What is the length of AD?



_	
Ans:	151
, 11 iQ.	

There were 80 animals in K-9 Pet Shop.  $\frac{9}{20}$  of the animals were kittens and the rest were puppies. After some kittens were sold,  $\frac{3}{25}$  of the animals left in the shop were kittens.

- (a) How many animals were left?
- (b) How many kittens were sold?

Ans: (a)_		[4]
Ans: (b)	<del></del>	[1]

- In the beginning,  $\frac{5}{9}$  of Benny's savings is the same as  $\frac{2}{3}$  of Jessica's savings. Jessica withdrew  $\frac{1}{3}$  of her savings and Benny added \$70 to his. Benny then has \$190 more than Jessica.
  - (a) How much savings does Jessica have in the end?
  - (b) If Benny withdraws half of his savings, what fraction of Benny's savings is Jessica's? (Give your answer in the simplest form.)

Ans:		: [2]_
Ans:		_[3]
End of Paper 2	<u>, , , , , , , , , , , , , , , , , , , </u>	
.17	Sub-Total	

ACS(J) 2010 SA1 Math Paper 2

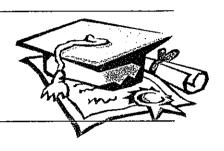


## ansmer sheet

#### **EXAM PAPER 2010**

SCHOOL: ACS (JUNIOR) PRIMARY SUBJECT: PRIMARY 5 MATHEMATICS

TERM : SA1



01	02	03	04	05	06	07	08	09	010	011	012	013	014	015
			4					~	4	-		-4	3	
I 2		I 3	1 L	1 3	4	1 2	i L	4	4	J 3		L	J 3	

16)865403

17)50cm

18)3.67

19)17/9m

20)22/9kg

21)49 tubes

22)3 squares

23)35CM

24)1:3

25)18.0cm<sub>2</sub>

26)26 years old

27)12 pencils

28)27

29)2/3

30)225

#### Paper 2

1)9 x 8 = 72 72 $\div$ 4 = 18 18 x 3 = 54 <sup>3</sup> / <sub>4</sub> of the number is 54	2)84÷ 7 = 12 12 x 5 = 60 Tim is 60 years old
3)72 stickers	4)800 - (65 x 4) = 540 540 ÷ 9 = 60 60 x 5 = 300 Melvin save \$300
5)7 - 3 = 4 25 - 13 = 12 12 ÷ 4 = 3 11 x 3 = 33 33 + 7 = 40 The length of 12 blocks is 40cm	6)380 x 2 = 760 760 + 260 + (240 x 2) = \$1500 He paid \$1500 for the entire trip
7)12 ÷ 2 = 6	8)600 - 40 = 560

9)a)3/3 = 8/12 1/4 = 3/12 12/12 - 8/12 - 3/12 = 1/12 1/12 of the cakes were raisin cakes. b)8 + 3 = 11 176 ÷11 = 16 16 x 12 = 192 She baked 192 cakes in all	10)1022cm
11)\$52.80	12)2800 ÷ 16 = 175 175 x 8 = 1400 175 x 3 = 525 1400 - 525 = 875 There are 875 more chicken in the 2 <sup>nd</sup> pen than the 3 <sup>rd</sup> pen.
13)a) $\frac{1}{2} \times 8 \times 6 = 24$ The area of $\triangle$ ABC is 24cm2 b)9-4=5 $5 \times 5 = 25$ 25 + 25 = 50 The length is 50cm c)5 $\times 3 = 15$ 6 + 15 + 9 = 30 $5 \times 4 = 20$ 20 + 8 = 12 = 40 $\frac{1}{2} \times 40 \times 30 = 600$ The area is 600cm2	14)1000 x 60 = 600.00 600.00 - 567.50 = 32.50 32.50 ÷ 6.50 = 5 teapots
15)a)16 x 2 = 32 6 x 3 = 18 4 x 4 = 16 32 + 18 + 16 = 14 = 80 The total number of children in Orchid Estate is 80. b)16 + 14 + 10 + 6 = 4 = 50 16 + 14 + 10 = 40 40/50 = 4/5 4/5 of the families in Orchid Estate has fewer than 3 children.	16) $\frac{1}{2} \times 10 \times 8 = 40$ $40 \div 8 = 5$ $5 \times 5 = 25$ $25 \div 5 = 25$ $5 \times 7 = 35$ $35 \div 10 = 3.5$ AD is 3.5cm long
17)a)25 - 3 = 22 44÷ 22 = 2 25 x 2 = 50 animals b)80 - 50 = 30 kittens	18)a)190 - 70 = 120 120 $\div$ 4 = 30 30 x 5 = 150 Jessica has \$150 savings in the end. b)30 x 9 = 270 270 + 70 = 340 340 $\div$ 2 = 170 150/170 = 15/17