

### AI TONG SCHOOL

# 2007 SEMESTRAL ASSESSMENT 2 PRIMARY 5

### MATHEMATICS

DURA			4745	π	A 2004	-
T 38 FF H 42	# # # B B B B B B B B B B B B B B B B B	-	~ <i>y</i>	200	*** X	30 TO 10 TO
升 建铁 医护气 水流	2 12 33 4		9	B 18	9 . 3	48444
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		A30.7	24 A	1 6	在京游电解片

DATE

: 25 OCT 2007

### INSTRUCTIONS

Do not open the booklet until you are told to do so. Follow all instructions.
Answer all questions.

Name	t they a	( )	
Class	: Primary 5	Marks:	100
Parent's Signature	:		*
Date	•		84

#### Booklet A

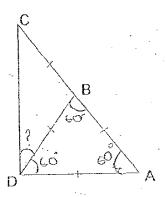
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

- 1. Which one of the following is the best estimate for 85 x 573?
  - (1) 80 x 500
  - (2) 80 x 600
  - (3) 90 x 500
  - (4) 90 x 600
- 2. What is the quotient when 3267 is divided by 16?
  - (1) 24
  - (2) 54
  - (3) 204
  - (4) 544
- 3. Marie had  $\frac{7}{10}$  m of wire. She cut it into 5 equal pieces. What was the length of each piece of wire?
  - (1)  $\frac{7}{50}$  m.
  - $(2) \quad \frac{2}{7} \quad m$ 
    - (3)  $3\frac{1}{2}$  m
    - (4)  $5\frac{7}{10}$  m

25

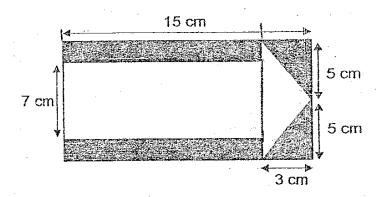
- 4. Express 6 months as a fraction of 2 years.
  - (1)  $\frac{1}{6}$
  - (2)  $\frac{1}{4}$
  - (3)  $\frac{1}{3}$
  - (4)  $\frac{1}{2}$
- 5. The value of  $\frac{5}{100} + \frac{1}{10} + \frac{6}{1000}$  to the nearest hundredth is \_\_\_\_\_.
  - (1) 0.01
  - (2) 0.16
  - (3) 0.012
  - (4) 0.156
- 6. There are 40 pupils in Class 5A. 18 of the pupils wear spectacles. What percentage of the pupils in Class 5A does not wear spectacles?
  - (1) 9%
  - (2) 45%
  - (3) 55%
  - (4) 82%
- 7. Jack and his cousin had 465 marbles each. Jenny had 330 marbles while her sister had none. Find the average number of marbles of the children.
  - (1) 265
  - (2) 315
  - (3) 398
  - (4) 420

- 8. Mr Vellu had to take a pill 4 times a day. He had a bottle containing 196 pills. How many weeks would he take to finish all the pills?
  - (1) 7
  - (2) 49
  - (3) 112
  - (4) 784
- 9. In the figure not drawn to scale, ABD is an equilateral triangle. ABC is a straight line and BC = BD. Find  $\angle$  BDC.



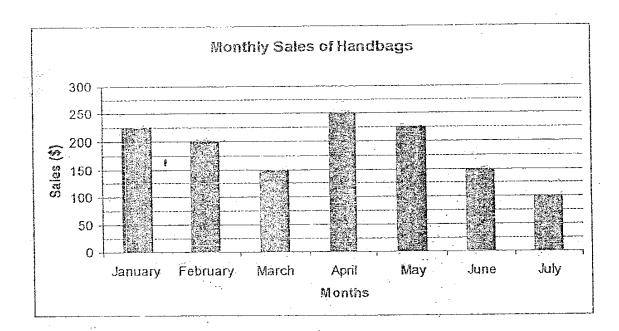
- (1) 15°
- (2) 30°
- (3) 60°
- (4) -120°
- 10. The volume of a 8 cm cube is \_\_\_\_\_
  - (1)  $24 \text{ cm}^3$
  - (2) 64 cm<sup>3</sup>
  - (3) 192 cm<sup>3</sup>
  - (4) 512 cm<sup>3</sup>
- 2 similar watches cost \$33 less than 3 similar pens. If the pens cost \$45 each, find the cost of each watch.
  - (1) \$6
- (2) \$39
  - (3) \$51
  - (4) \$84

- Danny spent  $\frac{2}{5}$  of his money on a bag and  $\frac{1}{3}$  of the remainder on some 12. snacks. What percentage of his money had he left?
  - 13% (1)
  - (2)20%
  - 40%
  - (3) (4) 60%
- There were 780 people in a cinema. After  $\frac{1}{2}$  of the women and 150 men left the 13. cinema, the ratio of the number of men to that of women became 1:3. Find the number of men in the cinema at first.
  - (1) 90
  - 240 (2)
  - 270 (3)
  - (4)336
- The figure below is not drawn to scale. What percentage of the figure is 14. shaded?



- (1)24%
- 34%
- 51%
- 66%

The bar graph below shows the monthly sales of handbags in a shop. 15.



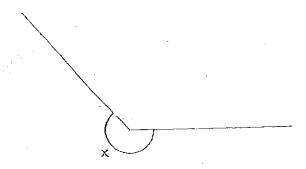
- In which month was the decrease in sales of handbags the greatest as compared with the previous month?
- March
- (2) (3) April
- May
- (4)June

Name:(	)		
Class: Primary 5		•	
Booklet B Questions 16 to 25 carry 1 mark each. Questions 26 to 35 carry 2 marks each. Show your working clearly in the space belothe blanks provided. For questions which restated.	ow each questic equire units, give	on and write yo e your answers	ur answers on in the units (30 marks)
16. In 542.603, which digit is in the tenth	splace?		
		Ans:	The state of the s
17. Find the value of 567 x 28			
		Ans:	
18. Evaluate 7 \frac{1}{8} - \frac{1}{4}			
		Ans:	
			90 3

19. At a party, the ratio of the number of parents to boys was 7 : 4. The ratio of the number of boys to the number of girls was 2 : 5. Find the ratio of the number of parents to the number of girls. Express your answer in the simplest form:



20. Using a protractor, measure  $\angle x$  in the figure below.



Ans:

21. 10 exercise books weigh as heavy as 3 workbooks. If each exercise book weighs 41.4 g, find the mass of 1 workbook.

9

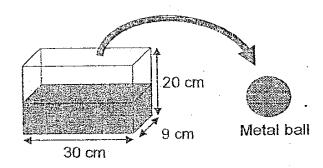
Ans:

22. 140% of a number is 84. Find the number.

23. The total cost of 5 blue dresses is \$128 and 3 red dresses cost \$48 each. What is the average cost of the 8 dresses?

Ans:	\$	
------	----	--

24. When the metal ball is taken out from the container below, the water level drops from 20 cm to 11 cm. Find the volume of the metal ball.



Ans:	 _cm <sup>3</sup>

25. A bus driver earns \$3618 in 3 months. At this rate, how much will he earn in 2 years?

<b>6</b>	re'
Ans:	Φ

26. Find the value of

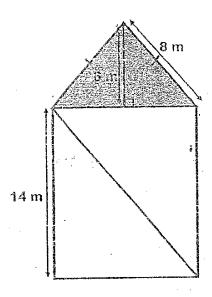
$$20 + 19 + 18 + 17 + 16 - 15 - 14 - 13 - 12 - 11 + 10 + 9 + 8 + 7 + 6$$
  
 $-5 - 4 - 3 - 2 - 1 + 0$ .

27. Diana, Linda and Eve shared 450 sweets. If each of them received 54 more sweets, the new ratio of the number of sweets shared by Diana, Linda and Eve would be 3:5:4. How many sweets did Diana have at first?

93

Ans:

28. The figure below is not drawn to scale. The perimeter of the figure is 54 m. Find the shaded area.



Ans: \_\_\_\_m<sup>2</sup>

29. A car travelled 120-km-on 10 l petrol. If the car were to travel 1260 km, beginning with a full tank, how many times must the driver top-up the fuel tank, given that the capacity of the tank is 50 l?

Ans:

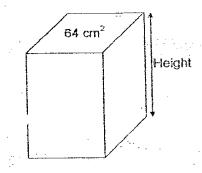
94

e distriction

30. Mrs Lim can type 97 words in one minute. At the same rate, how many words can she type from 1 p.m. to 3.45 p.m.?

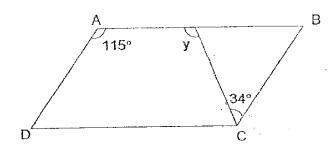
Ans:

31. The cuboid below has a square face of area 64 cm<sup>2</sup>. The length is  $\frac{2}{5}$  its height. Find the volume of the cuboid.



			-			
95				Ar	is:	cm
1-		-				

32. The figure below is not drawn to scale. Figure ABCD is a parallelogram. Find ∠ y.



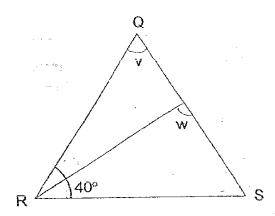
Ans:

33. 40% of the erasers in a box are purple. The rest are blue and green erasers in the ratio of 11: 4. There are 48 fewer purple erasers than blue erasers. How many erasers are there altogether?

Ans:



34. The figure below is not drawn to scale. QRS is an equilateral triangle. Find the sum of  $\angle$  v and  $\angle$  w.



Ans:

35. Randy uses 20 bowls of water to fill 0.25 of a fish tank. He uses another 20 bowls and 26 bottles of water to fill the rest of the fish tank. If each bottle can hold 0.75 litres of water, what is the capacity of the fish tank?

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

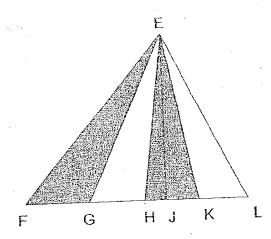
97

4

nes i	number of mar tion or part-qu	your answers in the sp ks awarded is shown i lestion.	n brackets [	] at the er	id of each (50 mark	(S)
6.	Siva has a to 2 pencils, he	tal of 30 pencils and not will have 50 pencils. Ho	ebooks. If he ex w many noteboo	changes ev oks does Si	ery noteboo va have?	k for
	•		;	, -		
	· .					
			1			
	- '					
			•		•	-
					*.	
	•				-	-
		gerie. To en ge	•			
	•		Ansv	ver:		[3]
ار حمدان شارجو						
37.	\$36 and Ah	d Ahmad had an equal mad spent \$21. When t ft. How much did each o	Jun Wei usea u	p an uns m	ay, Jun Wei ioney, Ahma	spen id∡stil
	÷		e d			
	·		e d			
	·					
			Ans	wer:		

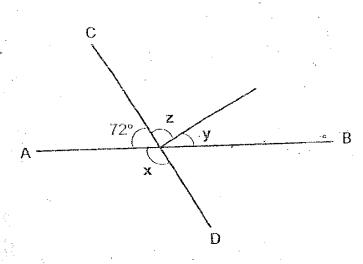
DE NAME GAO 2007

In the figure below, not drawn to scale, HL = 18 cm and FH = 22 cm. FG = GH, HK = KL and EJ = 9 cm. Find the total area of the shaded parts



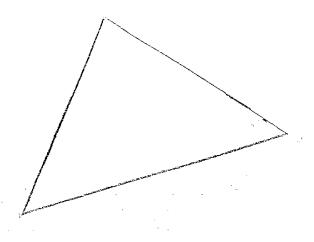
	 2	3
Answer.	J	Į.

39. In the figure below not drawn to scale, AB and CD are straight lines. If  $\angle x$  is three times as large as  $\angle y$ , find the <u>difference</u> between  $\angle z$  and  $\angle x$ .



Answer:	Ĭ	3	]
---------	---	---	---

40. Draw a triangle ABC in which AB = AC = 6 cm and  $\angle BAC = 80^{\circ}$ . Measure BC.



		$\sim$	7
Answer:	 L	3	1

41. A container weighs 22 kg when filled with Liquid B. The same container weighs 7 kg when filled with Liquid C. If Liquid B is 5 times as heavy as Liquid C, what is the mass of the container?

Anguar	Ţ	3	1
Answer:	 1,	•	j



Bobby, Edward and Kelvin made a bottle of paper stars. The number of paper stars Bobby made was 21 more than  $\frac{1}{4}$  the total number of paper stars in the bottle. The number of paper stars Edward made was 30 more than  $\frac{1}{4}$  of the remaining number of paper stars in the bottle. Kelvin made the remaining 114 paper stars. How many paper stars did they make in all?

Answer:

43. A, B and C are three numbers. The average of A, B and C is 5 greater than the average of A and B. If C is 38, find the total of A, B and C.

- 101.

Answer:\_\_\_\_[4

A big rectangular tank measures 80 cm by 60 cm by 40 cm, is  $\frac{1}{4}$  filled with water.  $\frac{4}{5}$  of a smaller rectangular tank is also filled with water. The ratio of the volume of water in the big rectangular tank to that in the smaller rectangular tank is 3:2. Find the capacity of the smaller tank in <u>litres</u>.

Answer:	[4	]
	102	



A box contained 50¢ coins and 20¢ coins in the ratio 2: 3. Peter took out four 50¢ coins, exchanged them for 20¢ coins and put the money back into the box. The ratio then became 2:7. Find the sum of money in the box at first.

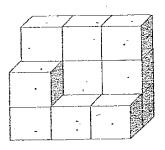
803

Answer:\_\_\_\_[5]

46. The following shows a solid made up of cubes of side 4 cm.

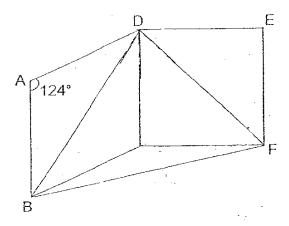
(a) Find the volume of the solid.

(b) If Ming Hui decides to colour the surface area green, find the total area that he has to colour.



(2) Answer: \_\_\_\_\_\_(3)

- ABCD is a rhombus and CDEF is a square.  $\angle$  DAB is 124°. 47.
  - Find (a) (b)
- ∠BDF ∠BFC



Devi's salary and Minah's salary are in the ratio of 4:5. If Devi's salary is 48. increased by 30%, by what percentage must Minah's salary be increased so that their salaries will be the same? 106 - CHECK YOUR WORK CAREFULLY -

## Ai Tong Primary School

#### Primary 5 Maths SA2 Exam (2007)



	02	O3	Q4	Q5
4	3	1	2	2
06	Q7	Q8	Q9	Q10
3	2	1	2	4
QH	Q12	Q13	Q14	Q15
3	3	2	2	4

16.

17. 15876

18.  $6\frac{7}{9}$ 

19. 7:10

20. 230

21. 138g

22. 60

23. \$34

24. 2430cm<sup>3</sup>

25. \$28944

26. 50

27. 99 sweets

28. 30cm<sup>2</sup>

29.

30. 16005 words

31. 1280cm<sup>3</sup>

32. 99°

33. 1200 erasers

34. 140°

35. 39 litres

Maring Co.

- 36. 29 notebooks
- 37. \$1260
- 38a.  $22cm \div 2 = 11cm$   $\frac{1}{2} \times 9cm \times 11cm$   $= 49.5cm^2$  $18cm \div 2 = 9cm$

$$\frac{1}{2} \times 9 \text{cm} \times 9 \text{cm}$$
= 40.5cm<sup>2</sup>
(40.5 + 49.5)cm<sup>2</sup> = 90cm<sup>2</sup>

39. 
$$\angle x = 180^{\circ} - 72^{\circ} - 108^{\circ}$$
  
 $= 108^{\circ} \div 3 = 36^{\circ}$   
 $\angle z = 180^{\circ} - 36^{\circ} = 72^{\circ}$   
 $= 108^{\circ} - 72^{\circ} = 36^{\circ}$ 

- 40. 7.7cm
- 41. 3.25kg
- 42. 284 paper stars
- 43. 84
- 44. 80cm x 60cm x 40cm = 192000cm<sup>3</sup>  $\frac{1}{4}$  x 192000cm = 48000cm<sup>3</sup> 48000cm<sup>3</sup> ÷ 3 = 16000cm<sup>3</sup> 16000cm<sup>3</sup> x 2 = 32000cm<sup>3</sup> 32000cm<sup>3</sup> ÷ 4 = 8000cm<sup>3</sup> 8000cm<sup>3</sup> x 5 = 40000cm<sup>3</sup>
  = 40t
- 45. \$9.60

- 46a. 4cm x 4cm 4cm = 64cm<sup>3</sup> Solid has 13 cubes 64cm<sup>3</sup> x 13 = 832cm<sup>3</sup>
- 46b. 640cm<sup>2</sup>
- 47a.  $180^{\circ} 124^{\circ} = 56^{\circ}$   $56 \div 2 = 28$   $90^{\circ} \div 2 = 45^{\circ}$   $\angle BDF = 45^{\circ} + 28^{\circ}$  $= 73^{\circ}$
- 47b.  $124^{\circ} + 90^{\circ} = 214^{\circ}$   $360^{\circ} - 214^{\circ} = 146^{\circ}$   $180^{\circ} - 146^{\circ} = 34^{\circ}$  $\angle BFC = 34^{\circ} \div 2 = 17^{\circ}$

in the second se

48. 4%