

END-OF-YEAR EXAMINATION 2011 MATHEMATICS PAPER 1 (BOOKLET A) PRIMARY FIVE

Name:	() Class: Primary 5		
Date: 2 November 2011		Ouration of Booklet A & B: 50min	

INSTRUCTIONS TO CANDIDATES.

- 1. This question paper consists of 7 printed pages.
- 2. Do not turn this page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Shade your answer on the Optical Answer Sheet (OAS) provided.
- 5. You are not allowed to use a calculator.

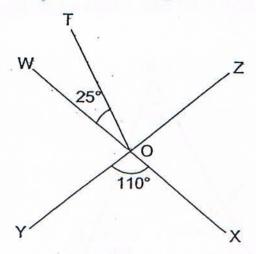
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Questions 1 to 10 carry 1 mark each. Question 11 to 15 carry 2 marks each. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet (OAS). (20 marks)

- 1. Find the value of 13 + 52 × 12 8.
 - 1) 229
 - 2) 260
 - 3) 629
 - 4) 722
- Find the value of 6.09 x 80.
 - 1) 4.872
 - 2) 48.72
 - 3) 487.2
 - 4) 4872
- Express 2.5 m as a percentage of 500 cm.
 - 1) 5%
 - 2) 20%
 - 3) 50%
 - 4) 500%
- 4. Jay has 108 Star Wars figurines. He gave $\frac{1}{3}$ of the figurines to his sister and $\frac{1}{4}$ of them to his brother. How many figurines did he have left?
 - 1) 45
 - 2) 63
 - 3) 72
 - 4) 81

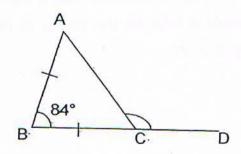
- 5. Calvin is $\frac{5}{9}$ as heavy as Danny. If their total mass is 126 kg, what is Calvin's mass?
 - 1) 14 kg
 - 2) 45 kg
 - 3) 56 kg
 - 4) 70 kg
- 6. 2 students pay a total of \$0.90 to play a game at the carnival. How much would a class of 40 students pay altogether to play the game?
 - 1) \$3.60
 - 2) \$18
 - 3) \$36
 - 4) \$40.90
- The ratio of the lengths of two ribbons is 1 : 9. If their difference in length is 312 cm, find the length of the longer ribbon.
 - 1) 31.2
 - 2) 39
 - 3) 351
 - 4) 390

In the figure below not drawn to scale, WOX and YOZ are straight lines.
 Find ∠TOZ.



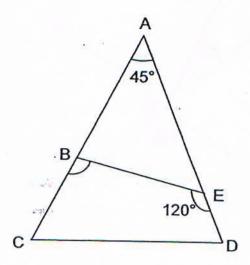
- 1) 70°
- 2) 85°
- 3) 135°
- 4) 155°

In the figure below not drawn to scale, ABC is an isosceles triangle.
 ∠ABC = 84° and BD is a straight line. Find ∠ACD.



- 1) 48°
- 2) 96°
- 3) 132°
- 4) 168

10. In the figure below not drawn to scale, ABC and AED are straight lines.
∠BAE = 45° and ∠BED = 120° Find ∠CBE.



- 1) 60°
- 2) · 75°
- 3) 105°
- 4) 120°
- A tap took 12 minutes to fill up a container with a capacity of 4 l. At the same rate, how long would it take for the tap to fill up 50% of another container with a capacity of 26 l?
 - 1) 36 min
 - 2) 39 min
 - 3) 52 min
 - 4) 78 min

- 12. Claudia had a sum of money. If she bought 188 cards, she would have \$42 left. If she bought 164 cards, she would have \$90 left. How much money did she have at first?
 - 1) 328
 - 2) 334
 - 3) 376
 - 4) 418
- A container of base 18 m by 11 m was filled with water to a height of 8 m. When water from the container is used to fill up 3 empty bottles to the brim, the water level in the container dropped to 3/8 of its original height. Find the volume of 5 such bottles.
 - 1) 330 m³
 - 2) 990 m³
 - 3) 1650 m³
 - 4) 1 782 m³

14. The charges for renting a car are given in the box below. Mr Yeo rented a car at 11.50 a.m. He returned it at 2.05 p.m. on the same day. How much did Mr Yeo pay for renting the car?

CARLFOR REALVAL	-10
For the first hour	\$80
For every additional $\frac{1}{2}$ hour or part thereof	\$40

- (1) \$120
- (2) \$160
- (3) \$200
- (4) \$240
- 15. When Yanling increases her savings by 50% and Serene decreases hers by 75%, both of them will save the same amount which is \$240. How much are their total savings at first?
 - 1) \$480
 - 2) \$800
 - 3) \$960
 - 4) \$1 120



END-OF-YEAR EXAMINATION 2011 MATHEMATICS PAPER 1 (BOOKLET B) PRIMARY FIVE

Name:()	Class: Primary 5
Date: 2 November 2011	Duratio	n of Paper Booklet A & B: 50 min
	_	Parent's/Guardian's signature

INSTRUCTIONS TO CANDIDATES

- 1. This question paper consists of 8 printed pages.
- 2. Do not turn this page until you are told to do so.
- 3. Followall instructions carefully.
- 4. Answer all questions.
- 5. You are <u>not</u> allowed to use a calculator.

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Paper 1 Booklet A. Multiple-Choice Questions	20	
Paper 1 Booklet B. Short Answers: Part 1	10	1
Paper 1 Booklet B. Short Answers: Part 2	10	;
Total Marks	40	

Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. Give your answers to the units stated and to its simplest form whenever necessary.

(10 marks)

16. Express 809 hundredths as a decimal.

Answer:

17. Find the sum of $\frac{1}{4}$ of 400 g and $\frac{1}{4}$ of 4 kg.

Answer: _____kg

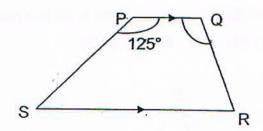
18. Find the value of $\frac{3}{7} \div 7$. Express your answer as a decimal correct to 2 decimal places.

Answer:

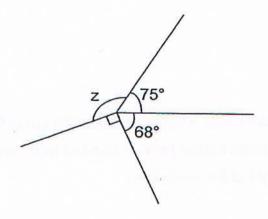
19:	Owen spends 20% of a day studying. How many hours does he study in each day? Give your answer as a mixed fraction in its simplest form.
£	
	± *7
	Answer:
20.	The average age of 3 girls is 5 years 4 months and the average age of 2
	boys is 9 years 11 months. Find the total age of the 5 children.
	Answer: yr mth
21.	$\frac{1}{3}$ of Winnie's father's age is equal to twice her age. What is the ratio of
	Winnie's age to her father's age?
	X X
	Answer:

22.	A basket of eggs was s	shared among	Alan, Brian ar	nd Cathy in the ratio
	4:5:6. Brian received 6	660 eggs. How	many more eg	gs did Cathy receive
	as compared to Alan?			
				*
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	3.9	ž.	1.7	
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	*		Answer: _	+
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23.	The average marks of 4	students in a M	Math exam is 81	. If the average
	marks of 3 students is 76	, how many m	arks did the 4th	student score?
	3	*		
		29	· *	
				*
				-
	2			
	.40			*
			Answer:	

24. In the figure below not drawn to scale, PQRS is a trapezium.
∠SPQ = 125° and ∠PSR is half of ∠PQR. Find ∠PQR.



25. The figure below is not drawn to scale. Find $\angle z$.

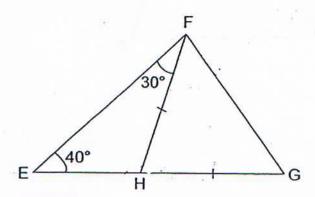


Answer:	. 0
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Questions 26 to 30 carry 2 marks each. Show all mathematical statements clearly in the space below each question and write your answers in the spaces provided.

(10 marks)

26. In the figure below not drawn to scale, FHG is an isosceles triangle.
∠EFH = 30° and ∠FEH = 40°. Find ∠FGH.



Answer: °

27. A container with a base 14 cm by 10 cm is filled with 0.46 \(\ell \) of lemon juice. If 0.8 \(\ell \) more lemon juice is needed to fill up the container completely, find the height of the container.

Answer: _____cm

28.	Jay used $\frac{2}{5}$ of his money to buy 10 pencils and 3 pens. Each pencil cost
	$\frac{1}{2}$ as much as a pen. How many pens could be buy with the remaining of
	his money?

Answer:	

9 friends pay equally for a meal that cost \$63.82 at a restaurant. How much does each person have to pay? Round off your answer to the nearest 10 cents.

Answer: \$____

30. There were a total of 370 chocolates and sweets in a box. There were 4 times as many chocolates as sweets. After 82 chocolates and sweets were taken out of the box, there were 3 times as many chocolates as sweets left. How many sweets were taken out of the box?

Answer:		

End-of-Paper



END-OF-YEAR EXAMINATION 2011 MATHEMATICS PAPER 2 PRIMARY FIVE

Name:	()	Class: Primary 5
Date: 2 November 2011			Duration of Paper 2: 1h 40min
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INSTRUCTIONS TO CANDIDATES

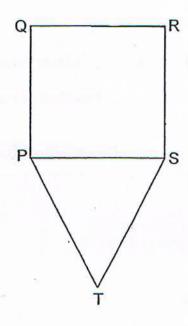
- 1 This question paper consists of 15 printed pages.
- 2. Do not turn this page until you are fold to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. You are allowed to use a calculator.

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Paper 2 Section B. Short Answers: Part 2	10	
Paper 2 Section C. Problem Sums	50	r
Total Marks	60	

Questions 1 to 5 carry 2 marks each. Show your mathematical statements clearly in the space provided for each question and write your answers in the spaces provided. Give your answers to the units stated and to its simplest form whenever necessary.

(10 marks)

 The figure PQRST as shown below is made up of an equilateral triangle and a square. If the area of square PQRS is 144 cm², find the perimeter of PQRST.



Answer:	*	000
Aliswel.		cm

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	he sum of $\frac{7}{12}$ of hat is the number		$\frac{3}{4}$ of the same n	umber is 624.	
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Answer: _

4.	Lucas spends 40% of his salary an	d saves the rest ever	y month. If his
	salary is increased by 20% in September much is his salary in August?	ember, ne would spei	nd \$1 188. How
		,	2
<u>.</u> 4	419		
3	150 Mg		
			:94
		Answer: \$	H ex
-	Mine Land Court		
5.	Ming has 2.5 times as much money a Ming. They have a total of \$327. How	as Olivia. Evelyn has w much does Evelyn	\$21 less than have?
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	* ************************************		in the second se
		Answer: \$_	

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For questions 6 to 18, show your steps 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. The number of marks available is shown in brackets [] at the end of each question or part-question. (50 marks)

6. Nitin could buy 8 packets of potato chips and 5 bottles of coke with \$19.80. With the same amount of money, he could buy 18 such packets of potato chips. If he only wants to buy coke, how many bottles of cokes can he buy with \$55?

Answer:	[3]
W. M. T. C. Control of the Control o	

7. Ewan had $\frac{1}{2}$ as many orange as apples. He sold 40 oranges and bought 70 more apples. Now, he has 190 more apples than oranges. How many apples did he have at the beginning?

75		[3]
	75	

8. Jaslyn has two strings of equal length. One string is blue and the other is green in colour. After cutting, 2.2 m of the blue string and 3.6 m of the green string, the length of the blue string is 1.5 times that of the green string. Find the original length of the green string.

Answer:	[3]
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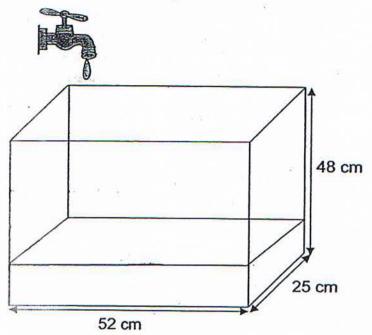
9. Every customer at a shop has to pay a 7% GST on their purchases. The original price of a television set without GST is \$1 650 as shown in the figure. At a sale, the television set is sold at a discount of 10% of its original price. What is the amount of money a customer has to pay for buying the television set at the sale?



Answer:	[3]

	to Matz, site still has \$30 f	more than him. What was Jane's original saving
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	30	
	W2	Answer:[3

In the figure below, a fish tank measuring 52 cm by 25 cm by 48 cm contained 2 720 m ℓ of water. Sandy then turned on a tap that flows at a rate of 4.32 ℓ per minute. How long does it take for the tank to be $\frac{2}{3}$ filled with water? Give your answer in minutes.



Answer:	[4]

- At first, Daniel had 185 twenty-six-cent stamps. After giving 30 stamps to Elijah, they both have the same number of stamps.
 - (a) How many stamps did Elijah have at first?
 - (b) Among the stamps that Elijah have at first, $\frac{2}{5}$ of them were fifty-five-cent and the rest were twenty-six-cent stamps. How many twenty-six-cent stamps did both Daniel and Elijah have altogether?

Answer: (a)	
2	
3/52 20	

- 13. Bryan's marks for English and Science are in the ratio 6 : 5. His Mathematics marks is $\frac{7}{8}$ of his Science marks. The total marks for his Mathematics and English is 166.
 - (a) Find his marks for English.
 - (b) What is the average mark of the 3 subjects?

_[2]
.[5]

14. There were 864 more chocolate muffins than banana muffins in a shop. After $\frac{1}{6}$ of the chocolate muffins and $\frac{3}{4}$ of the banana muffins were sold, there were 1 728 more chocolate muffins than banana muffins left. How many chocolate muffins were there at first?

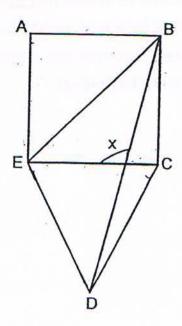
Answer:	[4]
	144

15.	In a school library, 48% of the books were Engli	sh books,	25%	of the
	remaining books were Malay books and the rest of the	ne books v	were C	hinese
	books. Given that there were 897 Chinese books,	-		

- (a) how many books are there in the library in all?
- (b) how many Malay books were there?

Answer: (a)	[2]
(6)	[2]
(b)	[2]

 In the figure below, not drawn to scale, ABCE is a square and EDC is an equilateral triangle. Find ∠x.



Anguar	
Answer:	[5

17. Ryan, Sean and Tristan collected a total of 492 bookmarks. Ryan had the least number of bookmarks. At first, the ratio of the number of bookmarks Sean had to the ratio of bookmarks Tristan had was 3: 2. After Ryan and Sean each gave away 50% of their bookmarks, Sean had 74 bookmarks more than Ryan. If the three boys had 326 bookmarks left, how many bookmarks did Ryan have in the beginning?

Answerz	[5]

18.	Mrs Ho had 2 boxes of oranges. At first, there are 228 more oranges in Box A than in Box B. Mrs Ho then transfers 600 oranges from Box A to Box B. Now, Box B contained 5 times as many oranges as Box A. How many oranges are there in each box at first?
8 50	

Answer: Box A:	[3
Box B:	[2]

End-of-Paper

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EXAM PAPER 2011

SCHOOL : ACS

SUBJECT: PRIMARY 5 MATHEAMATICS

TERM : SA2

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15		
3	3	3	1	2	2	3	2	3	3	2	4	3	3	4		
16	16)8.09 17)1.1kg				16)8.09			18)	0.06		19)4	4/5	2	0)35	yr 10	mth
21	21)1:6		22)264			22)264 23)96 24)11				10°	2	5)127				
26)55°		27)9cm 28				12 pe	ns	29)\$	7.10	30	0)2 sv	veets			
1)	per 2 12 x 5 It is 6	5 = 60)cm					1.10	÷18 = 8 = 8 = 8.80	3.80						
	spoon Fork-	\$6.2	0					11÷5	= 2.2 2.20 =	20						
	6.2 + 489.6	÷9.6	= 51			×			n buy	25 bo	ottles	of col	ke			
	She b	ough	t 51 f	orks				→1u →2u								
	3/4 = 9	The state of the s		c (40		1u - 40 + 190 = 2u + 70										
	A STATE OF THE PARTY OF THE PAR		2 = 1 $2 = 40$	The second second		1u + 150 = 2u + 70 $150 - 70 = 80$										
	It is 4					80/1 = 80 $80 \times 2 = 160$										
	4/10 : 1188/		= 4.8 247.5	;					d 160		s at fi	irst				
	247.5 x 10 = \$2475 His salary is \$2475 8)2.2m + 1.5u = 3.6m + 1u 1.5u - 1u = 0.5u															
	D→1u						0	.5u→		.4						
	M→2.							u→2.	F-1	_						
	E→2.5								.8 = 4							
	327 + 348÷								2.2 = 0 3.6 = 0							
		2.5) -	- 21 =	\$124				.o + . t is 6.	The Contract of the Contract o	0.4111						

9)9/10 x 1650 = 1485 107/100 x 1485 = \$1588.95 The amount of money is \$1588.95

$$5u - 25 = 2u + 25 + 55$$

 $5u - 25 = 2u + 80$
 $80 + 25 = 105$
 $105/3 = 35$
 $35 \times 5 = 175$

```
15)E→48
    M→13
    C→39
    897/39 \times 100 = 2300
    13/100 \times 2300 = 299
    a) There were 2300 books
   b) There were 299 Malay books
16) \angle EDC = 60^{\circ}
    \angle BCE = 90^{\circ}
    \angle BCD = 60^{\circ} + 90^{\circ} = 150^{\circ}
    ∠CBD or ∠BDC
    = (180^{\circ} - 150^{\circ}) \div 2 = 15^{\circ}
    \angle DBE = 45^{\circ} - 15^{\circ} = 30^{\circ}
    \angle x = 180^{\circ} - 45^{\circ} - 30^{\circ} = 105^{\circ}
    It is 105°
17)492 - 326 = 166
    166 \times 2 = 332
    R+S = 332
    166 - 74/2 = 46
    46 + 74 = 120
    After 50% taken away
    S->120
    R->46
    46 \times 2 = 92
   He had 92 bookmarks
18)Before
                           After
   A-)u
                           A->u- 600
   B→u - 228
                           B \rightarrow (u - 228) + 600 = u + 372
   5u - 3000 = u + 372
   372 + 3000 = 3372
   3372 \div 4 = 843
  843 - 228 = 615
```

There were 843 oranges in Box A and 615 oranges in Box B