Pei Chun Public School Continual Assessment 1 – 2012 Mathematics Primary 6

Paper 1 (Booklet A)

You are not allowed to use a calculator.

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Nam	ne:	· .	()	Date: 2	8 Febr	uary 2012
Clas	s: Prim	ary 6					
Tota	l Time f	or Booklets A and B:	50 min				
Math	s Tead	her :				· •	
Pare	ent's sig	nature :					
Fore	each qu	to 10 carry 1 mark ea estion, four options ar 3 or 4). Shade the co	e given. One	e of them is	the correct answ on the Optical Ar	ver. Ma	Sheet.
1.	The Whic	price of a flat when ro th is the lowest possib	unded off to the legisterial of	the nearest to flat?	thousand dollars	is \$46	5 000.
	(1)	\$464 499					
	(2)	\$464 500			• 99		
•	(3)	\$465 499 ·		-			
	(4)	\$465 500				()
2.	A factor	ctory can produce 600 actory produce in 15 n	bottles of minutes?	ilk in an hou	r. How many bo	ottles of	milk can
	(1)	10			-		
	(2)	40					
	(3)	90					
	(4)	150				()
				•			

- 3. Find the value of $36 + 24 \div 3 2 \times 2$.
 - (1) 16
 - (2) 36
 - (3) 40
 - (4) 48

()

- 4. Simplify 8m + 5 m 2 + 3m.
 - (1) 4m-3
 - (2) 4m+3
 - (3) 10m-3
 - (4) 10m + 3

()

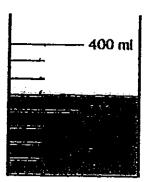
- 5. Find the value of $\frac{9}{10} \div 6$
 - (1) $\frac{3}{20}$
 - (2) $\frac{5}{27}$
 - (3) $5\frac{2}{5}$
 - (4) $6\frac{2}{3}$

)

- 6. Express $7\frac{5}{6}$ as a decimal. Give your answer correct to 2 decimal places.
 - **(1)** 7.56
 - (2) 7.65
 - (3) 7.83
 - (4) 7.84

()

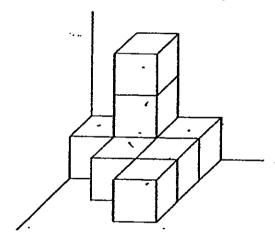
7. The figure below shows a beaker with some water in it.



What is the volume of the water in the beaker?

- (1) 0.210 &
- (2) 0.220 €
- (3) 0.225 t
- (4) 0.250 t

8. The solid figure below is made up of 1-cm cubes.



What is the volume of the solid figure?

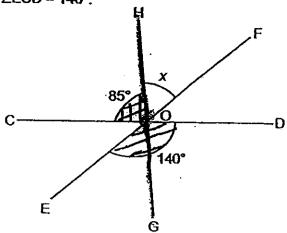
- (1) 7 cm³
- (2) 8 cm³
- (3) 9 cm³
- (4) 10 cm³

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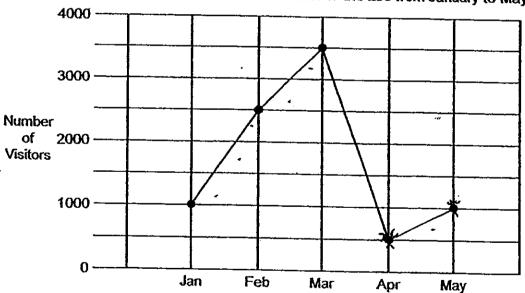
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9. In the figure below, COD, EOF and GOH are straight lines. ∠COH = 85% and ∠EOD = 140°.



Find $\angle x$.

- (1) 95°
- (2) 55°
- (3) 45°
- (4) 40°
- 10. The line graph below shows the number of visitors to the zoo from January to May.



Between which 2 months was there the greatest increase in the number of visitors to the zoo?

- (1) Jan and Feb
- (2) Feb and Mar
- (3) Mar and Apr
- (4) Apr and May

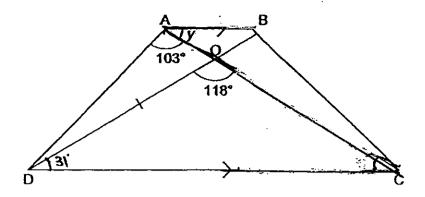
Page 4 of 6

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MA/P6/CA1/2012

11. In the figure below, ABCD is a trapezium and CO = DO.



Find $\angle y$.

- (1) 15°
- (2) 31°
- (3) 62°
- (4) 77°

12. The usual price of a wallet was \$80. During a sale, Sandy bought the wallet at a discounted price of \$64. What was the percentage discount on the wallet?

- (1) 20%
- (2).62 25%
- (3) 75%
- (4) 80%

13. Bala wants to pack 2 kg of salt into packets of $\frac{5}{8}$ kg each. What is the greatest number of such packets Bala can pack?

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

()

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- 14. The ratio of the number of Cindy's sweets to the number of Jimmy's sweets was 2:5. After Cindy bought 64 sweets and Jimmy ate 64 sweets, the ratio became 2:1. How many sweets did Cindy have at first?
 - (1) 8
 - (2) 16
 - (3) 32
 - (4) 48
- 15. Each figure below is made up of shaded and unshaded squares.

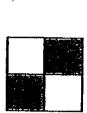


Figure 1

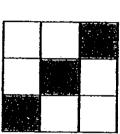
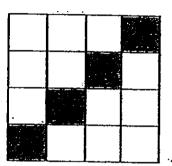


Figure 2:



(

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Figure 3

How many unshaded squares does Figure 30 have?

- (1) 961
- (2) 931
- (3) 930
- (4) 900

End of Booklet A

Pei Chun Public School Continual Assessment 1 Mathematics Primary 6

Paper 1 (Booklet B)

You are not allowed to use a calculator.

•	
Name :() Marks :	
Class: Primary 6	
Date:	
Total Time for Booklets A and B: 50 min	
Maths Teacher :	
Parent's Signature :	·
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 ma	Do not write in this space
16. List down all the common multiples of 6 and 8 that are smaller than 50.	
•	
Ans :	·
17. Fill in the missing number in the box.	
3.285 = 3 + 0.2 +	
Ans:	
	ORE ORE
50	OKE

Page 1 of 6

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MA/P6/CA1/201:



Pa	rking Charges
7 a.m. to 5 p.m.	\$3.50 per hour or part thereof
Ben parked his car from 1.2	0 p.m. to 4.35 p.m. How much parking fee did he pay?
	·•
	Ans: \$
Shade three more squares to state the line of symmetry.	to complete the figure below so that the dotted line EF
E	F
A movie lasting 2 hours and a novie start? Give your answ	32 minutes ended at 13 50. At what time did the ver in 24-hour time.
	~
•	Ans:

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22.	Find	the	value	οf	വ.വള	¥	വ
44.	LHI	แต	value	Ul	U:UO	~	JU.

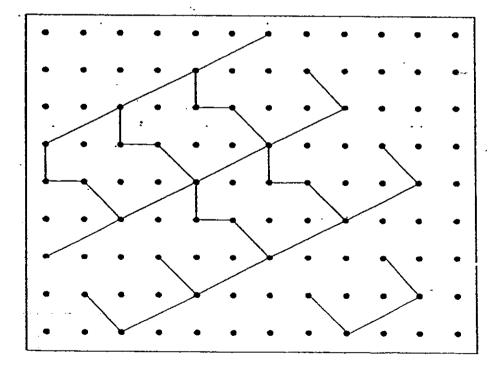
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A	_		
Anc	-		
Ans	•		

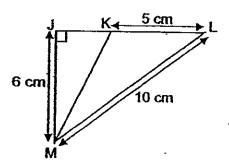
23. Find the value of 10.02 – 8.3.

Ans: _____

24. The pattern in the box below shows part of a tessellation. Extend the tessellation by drawing three more unit shapes in the space provided within the box.







Ans:	cm
------	----

Questions 26 to 30 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Ada's mass is 3c kg. Sam is 2 kg lighter than Ada. Zack is 5 kg heavier than Ada. If c = 9, what is the total mass of Ada, Sam and Zack in kg?

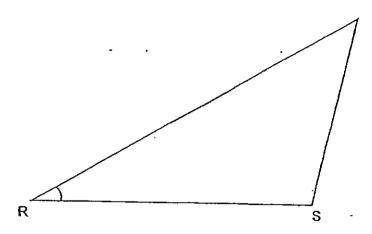
Ans: ____kg

27. Nat has 12 erasers and Yani has some erasers. If Yani gives Nat 5 eraser number of erasers Yani has will decrease by 20%. How many erasers do thave altogether?	s, the they
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Do not write in this space

Ans : _____

28. Draw and label a triangle PRS in which PR = 10 cm and ∠PRS = 30°. The line RS has been drawn for you.



	Mr Huat went to a bakery to buy some muffins. The price of one muffin was \$0.80. For every 7 muffins Mr Huat bought, he could buy another one at half the price. What was the greatest number of muffins that Mr Huat could buy with \$21?	Do not w in this sp
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	Ans:	
	books, there were 8 books left in the box. How many books were there in the box at first?	
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•	Ans :	
•	Ans:	
•	Ans :	
•	Ans:	
	Ans: End of Booklet B SCORE	

Page 6 of 6



Pei Chun Public School Continual Assessment 1 – 2012 Mathematics Primary 6

Paper 2 You are allowed to use a calculator.

Name:	()	Marks:	-	
Class: Primary 6		Paper 1 (Booklet A)	20	
Date : 28 February 2012		Paper 1 (Booklet B)	20	
Time: 1 h 40 min		Paper 2	40	r
Maths Teacher :		Booklet K Qn 5, Qn 14 - Qn 18	20	
Parent's Signature :		TOTAL	100	
Questions 1 to 4 carry 2 marks each each question and write your answer units, give your answers in the units 1. Jamet's father is 36 years old	rs in the spaces pro stated.	vided. For questions wi	hich require (8 marks)	Do not write
Janet. How old will Janet be	6 years from now?	ars ago, ne was 4 times	as old as	- at this space
		A.Q.		
••				
		•		
	· .	Ans:yea	ars old	
			SCORE	
MA / P6 / CA1 / 2012	Page 1 of 10	(Go on to th	ne next page)	

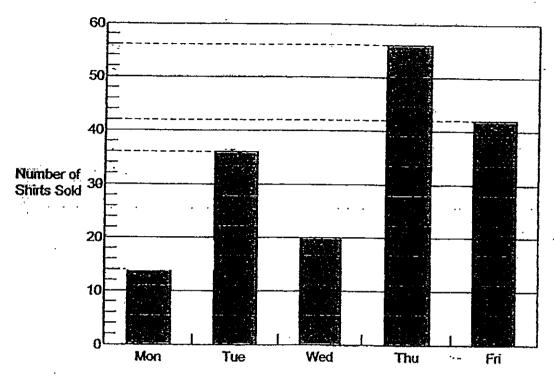
. 2	Aizhen has \$107.40 mor Fiona spent \$51.40, the did Fiona have at first?	re than Fiona. After Aizhen spent half of her money and y had an equal amount of money left. How much money in the	not write is space
•			
		·	
		Ans: \$	
3.	Identical 2-cm cubes are 35 cm by 31 cm. What is the block of wood?	cut from a rectangular block of wood measuring 20 cm by is the greatest number of such cubes that can be cut from	
	•		
		·	
		Ans:	
		· ·	
4.	A piece of wire is bent int figure below. The same tength of the square in ten	to the shape of an equilateral triangle as shown in the wire is then bent into the shape of a square. Express the arms of r.	
•	(r+1) cm		
		-	
		Ans :cm	
5.	Refer to Booklet K.	SCORE	
MA/P6	6/CA1/2012	Page 2 of 10 (Go on to the next page)	1

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For questions 6 to 13, show your working clearly in the space provided for each question 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. (Total: 32 marks)

Do not write in this space

6. The bar graph below shows the number of shirts sold by Mrs Quah from Monday to riday.

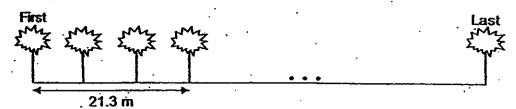


- (a) On which day was the number of shirts sold a quarter of those sold on . Thursday?
- (b) Find the ratio of the number of shirts sold on Friday to the number of shirts sold on Tuesday. Give your answer in the simplest form.
- (c) Express the number of shirts sold on Wednesday as a percentage of the total number of shirts sold from Monday to Friday. Give your answer to the nearest 1%.

Ans:	(a)	[1]
	(0)	[1]
	(c)	1 2]

7. Farmer Ho planted 20 apple trees in a row at equal distance apart. The distance between the first and the fourth tree was 21.3 m.

Do not write in this space



- (a) Find the distance between the first and the last tree.
- (b) Farmer Ho wants to plant another 25 trees at equal distance apart using the same total distance as in (a). How far apart will each tree be from the next? (Give your answer correct to 1 decimal place.)

Ans: (a) _____[2]

(b) _____[1]

8.	For every 250 books Sh \$30 for every 5000 book	aron sells, she eam	s \$10. She receives a	an addition of	Do not write
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			Ans :	121	
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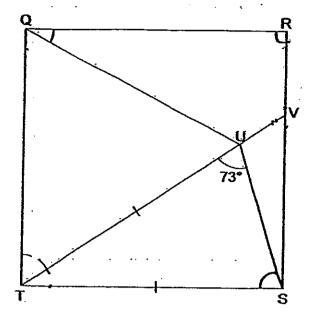
9.	Helen and Muthu had some stickers. The number of stickers Helen had was 64% of what Muthu had. Helen then gave Muthu $\frac{1}{4}$ of her stickers. As a result, Muthu had 119 more stickers than Helen.						
	(a)	How many stickers did Helen have at first?					
	(b)	How many stickers did Muthu have in the end?					
		• • • • • • • • • • • • • • • • • • • •	•				
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			•				
		·					
		Ans : (a) [4]					
		(b)[1]					
·		\$CORE					
MA / P6	/ CA1 / 2	U12 Page 6 of 10 (Go on to the next page)					

0.	Mrs Song has: 2 pears, she wi need another 1 have?	some money to ill have \$2.05 to 2.30. If an ap	o buy apples eft. If she b ple costs \$0	and pears. If suys 2 apples and 55, how much in	he buys 5 apples 17 pears instead noney does Mrs S	and she will Song	Do not write in this space
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/ P6 /	CA1 / 2012		Page 7 of 1	n	(Go on to the n	L	

11.	canteen w	as 1:2. After	all the ormis at	the captoo	bys to the nur	re were also som ther of girls at the school half, the all became 1:4.	le in this space.
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		v -		Ans:		[3]	
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MA/P6/CA [·]	1/2012		Page 8 of 10		(Go on	to the next page)	

12. In the figure below, QRST is a square. TUV is a straight line. ST = TU and ∠SUT = 73°.

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- (a) Find ∠QTU.
- (b) Find ∠UQR.

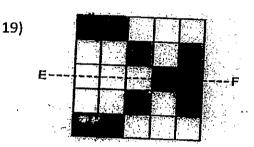
Ans: (a)		[2
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13.	At first, there were a total of 1540 blue and red beads in a jar. After $\frac{2}{7}$ of the blue								
	bead	s and $\frac{3}{5}$ of the r	ed beads were rem	oved from the	iar the mtic e	f tha more by	in this space		
•	beads and $\frac{3}{5}$ of the red beads were removed from the jar, the ratio of the number of blue beads left in the jar to the number of red beads left in the jar became 5:6.								
	(a) How many red beads were there in the jar at first?								
	(b)	How many mo blue beads in t	•	the number of					
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	-		• •	•	-				
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						[3]			
		•		(b)	<u>-</u>	[2]			
For Que	stions	14 to 18, refer t	o Booklet K.						
Sat hus	44. =		End of this Boo	oklet					
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Pei Chun Public School Continual Assessment 1, 2012

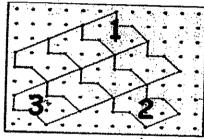
Primary 6, Mathematics Paper 1, Booklet A & B

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-21 J	4	51	1	01		1		123)	
<u>-,</u>		3)	1	[8]	2	[11]	2	114)	Λ
3)	3	6)	2	0)		 		 '/	4
-/				<u> [9]</u>		12)	1	[15]	3



18) \$14

21) $\frac{5}{9}$, $\frac{3}{4}$, $\frac{4}{5}$

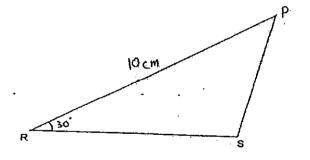


25)
$$\frac{1}{2} \times 5 \times 6 = \underline{15}$$

$$Yani = 5 \times 5 = 25$$

Total =
$$25 + 12 = 37$$

8)



- 7 muffins = \$0.80 x 7 = \$5.60 8 muffins = \$5.60 + \$0.40 = \$6 Muffins bought = 3 x 8 + 3 = <u>27</u>
- 50% of remainder = 8 + 3 = 1175% of the box = 22 + 5 = 27No. of books initially = $9 \times 4 = 36$

Muffins sold at half price = $$0.80 \div 2 = 0.40 Group of muffins = $21 \div 6 = 3 \text{ r}3$

Remainder = $11 \times 2 = 22$ $25\% = 27 \div 3 = 9$

1unit =
$$36 \div 3 = 12$$

Now =
$$12 + 3 = 15$$

6 years later = 15 + 6 = 21

Amount of money Fiona have at first = \$158.80 + \$51.40 = \$210.20

$$20 \div 2 = 10$$

$$35 \div 2 = 17 \text{ r}$$
1

$$31 \div 2 = 15 \text{ r}$$

Greatest number = $10 \times 17 \times 15 = 2550$

Length of wire =
$$(r+1) + (r+1) + (r+1) = 3r + 3$$

Length of square =
$$\left(\frac{3r+3}{4}\right)$$

6b)
$$42:36=7:6$$

6c)
$$20$$
 $14 + 36 + 20 + 56 + 42$ $\times 100\% \approx 12\%$

Helen = 64% of Muthu

Muthu after = 100% + 16% = 116%

Difference = 116% - 48% = 68%

68% = 119

$$64\% = \frac{119}{68} \times 64 = \underline{112}$$

$$64\% = \frac{119}{68} \times 64 = \underline{112}$$

$$116\% = \frac{119}{68} \times 116 = \underline{203}$$

Helen gave = $\frac{7}{4}$ x 64% = 16%

Helen after = 64% - 16% = 48%

a) Helen had 112 stickers at first.

4) 35250 Dook

b) Muthu has 203 stickers in the end.

1 pear =
$$$6 \div 5 = $1.20$$

2 pears and 5 apples = $($1.20 \times 2) + ($0.55 \times 5) = 5.15

Money Mrs song had = \$5.15 + \$2.05 = **\$7.20**

1:4

Canteen

4 parts + 72 = 2 parts + 126

4 parts - 2 parts = 126-72

2 parts = 54

1 part = $54 \div 2 = 27$

There were 27 boys at the canteen at first.

)
$$\angle TQU = (180^{\circ} - 56^{\circ}) \div 2 = 62^{\circ}$$

$$\angle$$
UQR = 90° - 62° = 28°

1) Total units = 15 + 7 = 22
$$\frac{1540}{22}$$

No. of red beads at first = $\frac{1540}{22}$

Blue beads at end =
$$\frac{42}{58}$$
 = 580

Initial no. of blue beads =
$$\frac{22}{x}$$
 5 = 35

Red beads at end =
$$x 6 = 420$$

$$\frac{1540}{42}$$

No. of blue beads to be added = 580 - 350 = 230