

Rosyth School First Continual Assessment 2006 **Mathematics** Primary 6

Name:		Total 100	•
Class: Pr 6 -	Register No.	Duration: 2h 15 min	
Date: 2 March 2006	Parent's Signature	e:	

BOOKLET A

Instructions to Pupils:

- 1. Do not open this booklet until you are told to do so.
- 2. Follow all instructions carefully.
- 3. This paper consists of 2 booklets, Booklet A and Booklet B.
- 4. For questions 1 to 15 in Section A, shade the correct ovals on the Optical Answer Sheet (OAS).

5. ANSWER ALL THE QUESTIONS.

rice Of the	Maximum	
rks Obtaine	20	Booklet A
	20	Section A
	30	Booklet B
	00	Section B
	50	Booklet B
•	00	Section C
	100	otal
-	100	

^{*} This paper consists of <u>24</u> pages altogether.

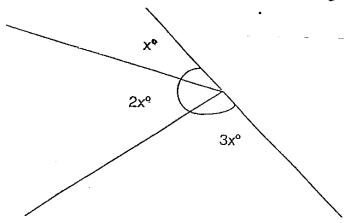
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Section A

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)

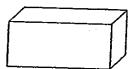
- Find the value of 24 000 x 200.
 - (1) 4800
 - (2) 48 000
 - (3) 480 000
 - (4) 4 800 000
- 2. Divide 5005 by 100.
 - (1) 0.5005
 - (2) 5.005
 - (3) 50.05
 - (4) 500.5
- 3. Which of the following is the smallest?
 - (1) $\frac{1}{2}$
 - (2) $\frac{2}{3}$
 - (3) $\frac{5}{7}$
 - (4) $\frac{5}{6}$
- 4. James is y kg. William is 2 times as heavy as James. What is William's mass?
 - (1) (2 + y) kg
 - (2) (2 y) kg
 - (3) (2y) kg
 - (4) $(\frac{y}{2})$ kg

- 5. Simplify 6a 5 + 3a + 10
 - (1) 3a 5
 - (2) $3a \div 15$
 - (3) 9a+5
 - (4) 9a 15
- 6. In the figure, not drawn to scale, all lines are straight lines. Find the value of $2x^{\circ}$.

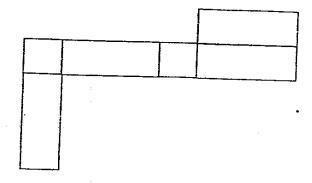


- (1) 30°
- (2) 60°
- (3) 90°
- (4) 120°

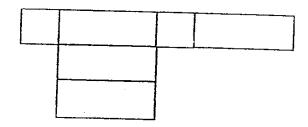
7. Which of the following is a net of the solid below?



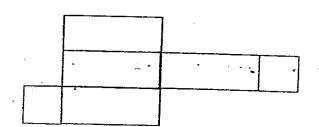
(t)



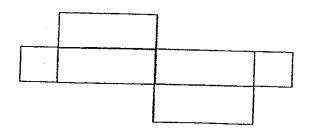
Q)



(g)



Q



3

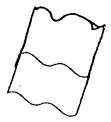
- If A: B is 3:4, which of the following is correct?
 - A is $\frac{3}{7}$ of B

 B is $\frac{4}{3}$ of A

 - $A \text{ is } \frac{4}{7} \text{ of B}$
 - \Re B is $\frac{3}{4}$ of A
- The sides of a triangle are in the ratio of 2:5:3. If the perimeter is 20 cm, what is 9. .the length of the longest side?
 - (1) 20 cm
 - 10 cm (2)
 - 6 cm
 - (4) 4 cm

10. Which of the following unit shape can form a tessellation?

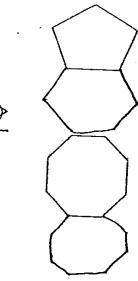








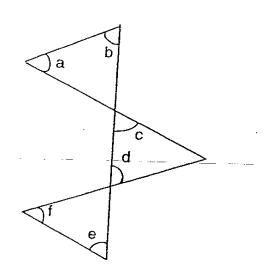




- 11. A set of 5 pencils costs 60 cents. How many pencils can May buy with \$3.60?
 - (1) 6
 - (2) 7
 - (3) 30
 - (4) 35

- 12. Shane has some sweets. If he gives 2 sweets to each classmate, he will have 20 sweets left. If he gives 3 sweets to each classmate, he will need another 20 sweets. How many classmates does Shane have?
 - (1) .36
 - (2)38
 - (3)40
 - (4) 42
- 13. A pot is $\frac{1}{3}$ filled with green beans. The green beans are then poured into an empty container which has a capacity that is $\frac{1}{2}$ of the pot. What fraction of the container is filled with green beans?
 - (1) $\frac{1}{6}$
 - (2) $\frac{1}{5}$
 - (3)
 - (4) $\frac{2}{3}$
- 14. James and Nigel shared some marbles in the ratio of 4:3. In a game, James lost half of his marbles to Nigel. Then Nigel had 42 marbles more than what James had left. How many marbles did they have altogether? 84 -
 - (1)
 - (2) 98
 - (3)126
 - (4) 147

15. What is the sum of $\angle a + \angle b + \angle c + \angle d + \angle e + \angle f$ in the figure which is not drawn to scale?



- (1) 180°
- (2) 270°
- (3) 360°
- (4) 450°



Rosyth School First Continual Assessment 2006 Mathematics Primary 6

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BOOKLET B

Instructions to Pupils:

- 1. Do not open this booklet until you are told to do so.
- 2. Follow all instructions carefully.
- 3. This paper consists of 2 sections, Section B and C.
- 4. For questions 26 to 48, show ail relevant working in the spaces provided.
- 5. ANSWER ALL THE QUESTIONS.

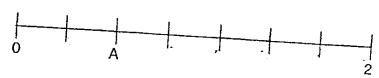
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ans	wers in the units state	e spaces provided. For questions which require units, give your ded. (10 marks
16.	Find the value of 40	+ 60 x 30 - 100 ÷ 50.
		$+ 60 \times 30 - 100 \div 50$.
		•
		Ans:
		Ans:
-	I am an even two-dig I am exactly divisible	it number. I am less than 25. The sum of my digits is 9. by 3. What number am I?
	I am exactly divisible	by 3. What number am !?
		•

18. How many quarters are there in $7\frac{3}{4}$?

Ans:

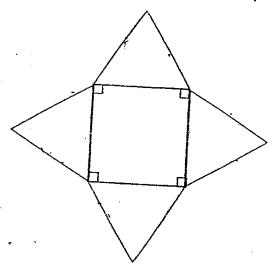
19. What is the value of A? Express your answer as fraction.



Ans:	
_	

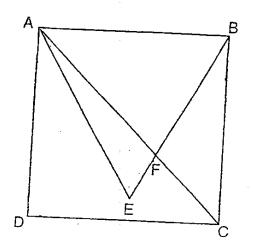
20. The figure below is made up of a square and four equilateral triangles. The length of the square is (p + 1) cm.

What is the perimeter of the figure in terms of p?



Ans:	
	cm

21. ABCD is a square and ABE is an equilateral triangle, find ∠AFB.



Ans:	
------	--

22. Here are four views of a cube.









What shape is on the face opposite 🍮?

Ans: _____

-			
		Ans:	
	•		
24.	Mrs Lee uses 60g of salt for evuses 90g of salt, how much sug	ery 100g of sugar to make a cup	of sauce. If she
	5	ar alloaid alle dae;	
•	•		
	·		
		Ans:	g
			· · · · · · · · · · · · · · · · · · ·
25.	The ratio of Ali's age to Bob's ag Bob's age next year?	e is 1 : 3. Ali is 5 years old now	. What will be
			·
	•		
		Ans:	· .

What is the ratio of 60 g to 1 kg 20 g?

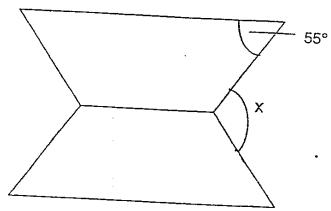
(Express your answer in its simplest form)

23.

Questions 26 to 35 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.

(20 marks)

26. The figure below is not drawn to scale. It is made up of 2 identical trapeziums. Find $\angle x$.



Ans:

27. Paul and his brother shared \$96. Paul received \$16 more than his brother. Find the ratio of Paul's share to his brother's share.

Ans:

	28. Jon had $\frac{3}{5}$ as many marbles as William. If Jon gives $\frac{1}{2}$ of his marbles to William William will have 100 more marbles than Jon. How many more marbles d	
	Hard Non	
	Ans:	
	29. In a school library, the ratio of the number of fiction books to the number of no fiction books is 6:5 and the ratio of the number of non-fiction books to the number of reference books is 3:2. If there are 7200 more fiction books that	
	reference books, how many books are there in the library?	in
. ·		
	Ans:	
, ra	30. There are 40 pupils in a class. 26 of them drank hot chocolate and 24 of them drank milk. 13 of them drank both. How many pupils drank neither hot chocolate nor milk?	•
		15
	Ans:	/ >

31.	$\frac{1}{4}$ of the area of a rectargular field?	angular field is 900	0 m² What ia 1 - r ii	part
	rectangular field?		or the	area of the same
٠.	: : :			
			Ans:	m²
	The ratio of the number of the ratio of the number of the first stamps does Ali have $\frac{1}{4}$ of the number of the ratio $\frac{1}{4}$ of the number of the number of the ratio $\frac{1}{4}$ of the number o	s stamps, Ali still h	ne number of Linda's s	stamps is 8 : 3. Ian Linda. How
	:			
			Ans:	
· As	tring w cm long is cut into	2 pieces. One particles of	iece is 3 cm longer the	an the other.
				16
		Ans: _		cm
				1.d

34.	There are some cookies in a	Cookie jar For sure to
	Desmond gets 7 gookies Allar	ros gets no cookies James gets,
	in the cookie jar?	cookie jar. For every 13 cookies James gets, nes gets 39 eweets, how many cookies are there
	· ^ ^	and Desmony were
	at first	gets thenest

Ans:			 	
Alio.	 	· ····	 	

35. The figure below shows one unit. Draw 2 more units to show that the figure below can tessellate.

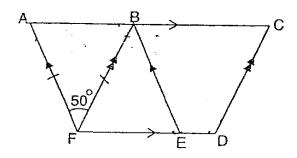
Section C

For questions 36 to 48, show your working clearly in the space below each question and write your answers in the spaces provided.

The marks for each question or part-question is shown in brackets () at the end of each question. (50 marks)

36. Tim and Wilma shared \$208. Wilma had the larger amount. After each of them had spent half of what they had originally, the difference between them is \$68. How much did Wilma have at first?

- 37. The following figure is not drawn to scale. ABEF and BCDF are parallelograms. Find
 - (i) ∠BEF
 - (ii) ∠EDC



Ans: (i)_____(1m)

(ii)_____(2m) ₇₈

cla	e boys. If there are 5	girls who wear spectacles, how man	ny more pupils in
Jiq	os wear shecracies il	han pupils who do not wear spectacle	s?
,	:		
	;		
		Ans :	(<i>3</i> n
39. Tom	weighs (10 + 7w) kg	g. Kumar weigh 5w kg lighter than 1	.
3x kç	g more than Kumar. V	What is the total weight of the three bo	iom. Hariz weigh
		weight of the three bo	$\text{ bys if } \mathbf{w} = 4 ?$
•			
	: :		
		Ans :	(3m)
		Ans :	(3m)
). At first	, Kenny had thrice as		(011)
). At first	, Kenny had thrice as	s many stickers as Ahmad Attack	(011)
	mand had	s many stickers as Ahmad. After Kenry Ho	(011)
	, Kenny had thrice as stickers, Ahmad had y have altogether at f	s many stickers as Ahmad. After Kenry Ho	(011)
	mand had	s many stickers as Ahmad. After Kenry Ho	(611)
	mand had	s many stickers as Ahmad. After Kenry Ho	(611)
	mand had	s many stickers as Ahmad. After Kenry Ho	(611)
	mand had	s many stickers as Ahmad. After Kenry Ho	(Olly
	mand had	s many stickers as Ahmad. After Kenry Ho	(611)
	mand had	s many stickers as Ahmad. After Kenry Ho	(611)
	mand had	s many stickers as Ahmad. After Kenry Ho	(Om)

 $\frac{3}{4}$ of the pupils in the class wear spectacles. $\frac{5}{6}$ of those who wear spectacles

41. Amy, Bala and Candy were given \$448 to share among themselves. Amy received \$52 more than Candy. Bala received twice as much money as Candy. How much money did Amy receive?

Ans:____(3m)

42. Jenny's monthly allowance is \$220. She spent $\frac{1}{5}$ of it on transport and $\frac{3}{10}$ of it on food. She spent half of the remaining money on her hobby and saved the rest. How many months would she take to save \$330?

	-						
43.	Susan spe	nt \$296 on 32 s	shirts. She p	aid \$8 ea	ich for the sh	ort-sleeved sl	nirts and
	\$12 each fo	or the long-slee	eved ones. H	low many	short-sleeve	ed shirts did sl	he buy?
		·	•				
	•						
				•			
•							
						-	
	÷						
	*		·	* *			
					Ans :		(4m)
							\/
	•				ć.		2/

46. Jane and Daphne each bought a certain number of ribbons from a shop. Jane gave $\frac{1}{6}$ of her ribbons to Daphne. Then Daphne gave $\frac{2}{5}$ of what she had back to her. Next, Jane counted all her ribbons and gave $\frac{1}{4}$ of them to Daphne. In the end, Jane had 54 ribbons and Daphne had 51 ribbons. How many ribbons did each of them buy from the shop at first?

Ans		((5m	ı١
M110	٠		اال	τ,

- 47. There were 50 more marbles in Box A than in Box B. 10 marbles were transferred from Box B to Box A. Next, 14 marbles from Box C were then transferred to Box A. Finally, Box A had thrice as many marbles as Box B.
 - (a) If Box B had twice as many marbles as Box C at first, how many marbles were in Box C at first?
 - (b) How many marbles were there altogether?

Ans : (a)	(3m)
(b)	(2m)

- 48. Mr Ong had some oranges, pears and durians. After selling some of them, there were 6 pears for every 5 oranges left and 7 oranges for every 3 durians left. After selling 168 oranges, he had 456 pears and durians left. The number of pears sold was the same as the number of durians sold.
 - (a) How many oranges had he at first?
 - (b) If the number of pears was twice the number of durians at first, what is the total number of pears and durians sold?

(2m)	Ans : (a)
(3m)	(b)

26

End of Faper Please check your work carefully.

Rosyth Primary School

Primary 6 Maths CA1 Exams (2006)

Answer Sheets

2 Q3 1	Q4 3	3
7 I OS	Q9	Q10
2	2	1
2 013	014	Q15
<u> </u>	2	3
	7 Q8 2 2 Q13 4	2 2

- 16. 1838
- **17.** 18
- 18. 31 quarters
- 19. $\frac{4}{7}$
- 20. (8p+8)cm

- 21. 75
- 22. Δ
- 23. 1:17
- 24 150g
- 25. 16 years old

26.	110	27.	7:5
28.	130 marbles	29.	38700 books
30.	3 pupils	31.	1800m²
32.	160 stamps	33a.	$(\mathbf{w}-\frac{3}{2})$ cm
34.	60 cookies	35.	

36.	\$(208 - 68 - 68) = \$72	37.(i)	$\angle a = \angle b$
	$\$72 \div 4 = \18		
	\$(18 + 18 + 68 + 68) = \$172		$\angle BEF = \underline{65^{\circ}}$ (opposite angles) (Ans)
	Wilma had \$172 at first (Ans)	(ii)	$\angle EDC = (180^{\circ} - 65^{\circ}) = \underline{115^{\circ}}$ (Ans)
	20	39.	$7 \times 4 = 28$
38.	$5 \times 6 = 30$ $5 \times 2 = 10$		28 + 10 = 38
	30 - 10 = 20	ļ	$5 \times 4 = 20$
	30 - 10 20	1	38 - 20 = 18
	20 more pupils in the class wear		$3 \times 4 = 12$
	Spectacles than pupils who do not		12 + 18 = 30
	wear spectacles		30 + 18 + 38 = 86kg
			The total weight is 86kg (Ans)
40.	$2 \div 2 = 1$	41.	448 - 52 = 396
	6 - 1 = 5		$396 \div 4 = 99$
	$5\mathbf{u} \doteq 60$		99 + 52 = 151
	$1\mathbf{u} = 12$		Amy received \$151.00 (Ans)
	2+6=8	İ	Amy received 3131.00 (Fins)
	$12 \times 8 = 96 \text{ stickers (Ans)}$		
	They had <u>96 stickers</u> altogether at first.		
42.	220 ÷ 20 = 11	43.	Short-sleeve Long-sleeve
42.	$11 \times 5 = 55$		22 x \$8 10 x \$12
	$330 \div 55 = 6 \text{ months}$		\$176 \$120
	She would take 6 months (Ans)		\$176 + \$120 = \$296.00
	The Monin take o months (1711)		She bough 22 short-sleeve shirt (Ans)

			T 45	$200 \div 2 = 100$
44a.	20 - 12 = 8		45.	200 = 2 = 100 201 x 100 = 20100
	$200 \div 8 = 25$			$201 \times 100 - 20100$ $20100 = $201.00 (Ans)$
	$25 \times 12 = 300$			20100 - 9201.00 (1110)
	There are 300 trees	in Orchid Park		
44b.	$25 \times 20 = 500$			
1.150	$25 \times 15 = 375$			
	500 - 375 = 125			
	500 - 300 = 200	•		
	125 + 200 = 325			
	The total number of	trees had to be added		
	is <u>325</u> (Ans)			
	IS <u>323</u> (All s)			
		· 	47a.	50 + 10 + 14 = 74
46.	3u = 54	•		74 + 10 = 84
	$1\mathbf{u} = 18$			$84 \div 2 = 42$
	$4\mathbf{u} = 18 \times 4$			42 + 10 = 52
	= 72			$52 \div 2 = 36$
	3u = 33			There were 26 marbles at first (Ans)
1	2u = 22			
,	5u = 55	!	47b.	26 + 52 = 78
	72 - 22 = 50		47.0.	52 + 50 = 102
	5u = 50			102 + 78 = 180 (Ans)
	1u = 10			,
	6u = 60 (Jane) = 55 - 10	(Ans)		There were 180 marbles altogether.
	= 55 - 10 = 45 (Daphne)	(Ans)		
			48b.	$42\mathbf{u} = 8 \times 42$
48a	6:7:3	•	400.	= 336
	42 : 35 : 15			$15u = 8 \times 15$
	42 + 15 - 57			= 120
1	$57\mathbf{u} = 456$			336 + <u>96</u>
	35u = 280			= 432
	= 280 + 168			120 + 96
	= 448 oranges			= 216
				432 : 216
				2 : 1
				96 + 96 = 192 pears + durians (Ans)
				70 · 70 · 22= F
1				