

Rosyth School First Continual Assessment 2012 Primary 6 Mathematics

Name:	Register No
Class: Pr 6	
Date: 1 st March 2012	Parent's Signature:
Total Time for Booklets A and I	3 : 50 min

PAPER 1 (Booklet A)

Instructions to Pupils:

- 1. Do not open this booklet until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Shade your answers in the Optical Answer Sheet (OAS) provided.
- 4. You are not allowed to use a calculator
- 5. Answer all questions.

Section	Maximum Mark	Marks Obtained
Paper 1 (Booklet A)	20	

^{*} This booklet consists of 6 pages (excluding this cover page)

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Booklet A

Question 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 and 4). Shade the correct answer on the OAS (Optical Answer Sheet).

(20 marks)

- 1. Which of the following is two hundred and two thousand one hundred and eighteen in figures?
 - (1) 2 018
 - (2) 22 118
 - (3) 202 118
 - (4) 220 118
- 2. An apple costs y cents. An orange costs 20 cents more. Alan wants to buy 2 apples and 4 oranges. How much must be pay for them?
 - (1) (4y + 20) cents
 - (2) (4y + 80) cents
 - (3) (6y + 20) cents
 - (4) (6y + 80) cents
- 3. Simplify 9p 4p + 7 p + 5
 - (1) 4p + 2
 - (2) 4p + 12
 - (3) 5p + 2
 - (4) 5p + 12

- 4. Which of the following shows 13 sixths?
 - (1) $\frac{6}{13}$
 - (2) $2\frac{1}{6}$
 - (3) $6\frac{1}{13}$
 - (4) $13\frac{1}{6}$
- 5. Brenda took out 35 marbles out of a box and there were 15 marbles left. What fraction of the marbles did she take out of the box?
 - (1) $\frac{3}{10}$
 - (2) $\frac{3}{7}$
 - (3) $\frac{7}{10}$
 - (4) $\frac{4}{7}$
- 6. The area of a rectangle is (12d) cm². If its breadth is 4 cm long, find its perimeter.
 - (1) (3d) cm
 - (2) (3d + 4) cm
 - (3) (6d + 8) cm
 - (4) $(\frac{12d}{8})$ cm

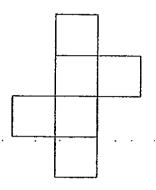
- 7. In a class of 41 pupils, 17 of them are girls.
 What is the ratio of the number of boys to the total number of pupils?
 - (1) 17:24
 - (2) 17:41
 - (3) 24:17
 - (4) 24:41
- 8. Dilla mixed 3 eggs with every 2 cups of flour to make a pancake batter.
 Using the same proportion, how many eggs did she use to mix with 18 cups of flour?
 - (1) 6
 - (2) 9
 - (3) 27
 - (4) 54
- 9. The length of a rectangular room is 21 m. The ratio of its width to its length is 3:7. What is the area of the room?
 - _(1)__63 m²
 - (2) 147 m²
 - (3) 189 m²
 - (4) 210 m²

10. The figure below shows a cube.

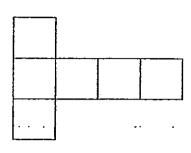


Which one of the following is not a net of the cube?

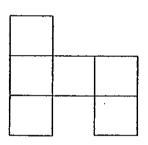
(1)



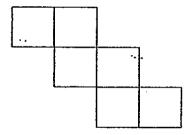
(2)



(3)



(4)



- 11. Gina packed $\frac{1}{6}$ kg of flour into each container. She had $\frac{5}{6}$ kg of flour altogether. How many such containers did she pack?
 - $(1) \qquad \frac{5}{36}$
 - (2) 5
 - (3) $4\frac{1}{6}$
 - (4) 4

- 12. Chandra had some amount of money.
 - She spent $\frac{1}{4}$ of it on a blouse and $\frac{2}{5}$ of the remainder on a bag.

She saved the rest. What fraction of her money did she save?

- (1) $\frac{3}{10}$
- (2) $\frac{9}{20}$
- (3) $\frac{3}{5}$
- $\frac{(4)}{10}$
- 13. In the school hall, $\frac{1}{3}$ of the number of boys is equal to $\frac{3}{5}$ of the number girls. If there were 180 more boys than girls, how pupils were there altogether?
 - (1) 225
 - (2) 280
 - (3) 405
 - (4) 630
- 14. Ernie and Fandi shared a sum of money in the ratio of 5 : 9.

After Fandi spent \$36 on a pair of jeans, they had the same amount of money.

What is the total amount of money they had in the end?

- (1) \$40
- (2) \$81
- (3) \$90
- (4) \$162

- 15. Shawn had enough money to buy either 8 pens or 12 pencils. He decided to spend all his money on these 2 items. If he bought 6 pens, how many pencils did he buy?
 - (1) 6
 - (2) 9
 - (3) 3
 - (4) 16



Rosyth School First Continual Assessment 2012 Primary 6 Mathematics

Name:	Register No.
Class: Pr 6	
Date: 1 st March 2012	Parent's Signature:
Total Time for Booklets A and	d B : 50 min

PAPER 1 (Booklet B)

Instructions to Pupils:

- 1. Do not open this booklet until you are told to do so.
- 2. Follow all instructions carefully.
- 3. You are not allowed to use a calculator
- 4. Answer all questions.

Section	Maximum Mark	Marks Obtained
Paper 1 (Booklet B)	20	

^{*} This booklet consists of 5 pages (excluding this cover page)

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Booklet:	В
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	:-	(10 marks
16.	Round off 739 910 to the nearest thou	ısand.
		A
-		Ans:
7.	If $y = 3$, find the value of $\frac{y + 5y}{8}$	
		Ans:
3.	Express 30 minutes as a fraction of 4 h).
÷	**************************************	Ans:
	The average of three numbers is 50. If the total of two of the numbers is 47, number?	what is the value of the third
	•	Ans:

20.	Mary is $\frac{3}{5}$ as tall as Jane.				
	What is the ratio of Jane's height to Mary's height?				
	Ans:				
21.	Red and yellow markers are placed along a jogging track. A yellow marker is placed after every sixth red marker.				
	If there are 42 markers altogether, how many yellow markers are there?				
	••				
	Ans:				
00	4				
22.	$\frac{4}{9}$ of the money collected from a charity drive was divided among 8				
	organisations. What fraction of the money did each organisation receive?				

Ans:_

23.	 Ismail had \$17b. His mother gave him another \$4b. He spent the san amount of money in four days and had \$2b left. Express the amount money he spent each day in terms of b. 		
	Ans:_\$_		
24. Lisa is $(3h + 9)$ years old. Her brother is $2h$ years older than her. What was their total age 4 years ago?			
	·		
	Ans:		
25.	The figure below shows the net of a solid. What is the solid?		
-			
	Ans:		

	(10 mark
26	Pooja had 38 stamps at first. After Pooja and her sister each received 7 stamps from their father, Pooja ended up with five times as many stamps as her sister. How many stamps did her sister have at first?
	Ans:
27,	Randy has \$5 notes and \$10 notes which add up to \$255. If he has 13 \$5 notes, how many \$10 notes does he have?
	many φ το notes does he have?
	Ans:

29. Nina and Owen had a total \$320. After Nina had given $\frac{1}{5}$ of her money to Owen, they now had the same amount of money. How much did Owen have at first?

Ans:	\$	•	•	•	•
	<u> </u>	 		 	_

30. At a Bird Show, $\frac{2}{3}$ of the audience were children.

The number of boys was $\frac{2}{5}$ the number of girls. If there were 36 girls, how many adults are there at the show?

Ans:	•



Rosyth School First Continual Assessment 2012 Primary 6 Mathematics

	PAPER 2
Time: 1 h 40 min	•
Date: 1 st March 2012	Parent's Signature:
Class: Pr 6	
Name:	Register No

PAPER 2

Instructions to Pupils:

- 1. Do not turn over this page until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Answer all questions.
- 4. Show your workings clearly as marks are awarded for correct working.
- 5. Write your answers in this booklet.
- 6. You are allowed to use a calculator

Questions	Maximum Mark	Marks Obtained
Q 1 to 5	10	
Q 6 to 18	50	

Section	Maximum Mark	Marks Obtained
Paper 1	40	
Paper 2	60	
Total	100	

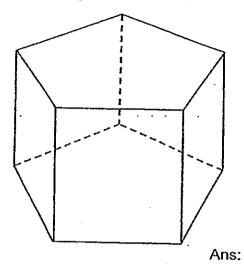
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Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

1 How many faces does the figure below have?



Joe started saving money on a Tuesday with \$2.
He saved \$2 every day since then.
On which day would he have saved \$192?

Ans:____

 $1\frac{1}{4}$ m of ribbon is cut into shorter pieces.

Each of the shorter piece is $\frac{1}{3}$ m.

What is the length of the remaining piece? (Give your answer in the simplest form.)

Ans:______ m

The ratio of the perimeter of an equilateral triangle to the perimeter of a square is 2:3. The perimeter of square is 36 cm. What is the length of one side of the triangle?

Ans:_____ cm

- 5 There are some people in a cinema.
 - $\frac{3}{7}$ of them are men and the rest are women and children.

There are $\frac{3}{5}$ as many women as children.

What is the ratio of the number of men to the number of children in the cinema?

Ans:

Qu	estions 6 to 18, show your working clearly in the space provided for each	:h
que	estion and write your answers in the spaces provided. The number of n	narks
ava	ilable is shown in brackets [] at the end of each question or part-ques	stion.
	(50	marks)
6	divided between Mrs Wong gave \$y equally to her two children, John and Kathy.	
	(a) John spent \$178 and saved the rest of it.	
	Find the amount of money John saved in terms of y.	
	(b) If $y = 568 , find the amount of money John had saved.	
	Ans: a)	[2]
		:
	b)	[2]
•	8 640 people registered to take part in a walkathon. There were 5 times as many adults as children. When 80 women and 80 children withdrew from the walkathon, the number of women who took part in the walkathon became twice the number of children who took part in the walkathon. How many men took part in the walkathon?	
	Ans:	[3]

	Mdm Dinah wanted to give some stickers to every pupil in her art class. If she were to give 8 stickers to each pupil, she would be short of 16 stickers. If she were to give 6 stickers to each pupil, she would have 2 stickers left How many pupils were there in her art class?
	Ans:[3]
9	There were 450 oranges, 280 apples and some pears in a carton. When an equal number of rotten oranges and rotten apples were thrown away, the number of oranges left became thrice the number of apples left. There were 90 more pears than apples left. How many fruits were left in the box?

10	In a NATAS fair, the ratio of the number of men to the number of women was 5 : 8. $\frac{1}{3}$ of the men and $\frac{1}{4}$ of the women left the fair.
	There were 4 480 people who remained in the NATAS fair. How many people were in the NATAS fair at first?
	the state of the s
•	
	,
	Ans:[3]
	
11	There were some children in the hall. $\frac{1}{4}$ of the children were girls.
	After $\frac{1}{3}$ of the girls had left the hall, there were 42 more boys than girls
	remaining in the hall.
	How many children were in the hall at first?
٠	
÷	
	:

Dennis, Elvis, Faith and George donated some money to the School Pocket Fund.

The ratio of the amount donated by Dennis to the total amount donated by Elvis, Faith and George was 1:7.

Elvis donated $\frac{5}{11}$ of the total amount.

Faith donated $\frac{1}{3}$ of the amount donated by Dennis, Elvis and George.

If Dennis donated \$132 less than Faith, what is the total amount donated by the four children?

There were some roses at a florist shop.

On Friday, the florist sold $\frac{1}{3}$ of the roses and an additional of 14 stalks of roses.

On Saturday, the florist sold $\frac{3}{4}$ of the remaining roses and an additional of 25 stalks of roses.

There were 98 roses left.

How many roses were sold on Friday?

Ans:	 [4
Ans:	 [4

14	Jack, Meili and Raj shared some	50-cent coins.	
	They each had an average of 28 o	oins.	
4	The total amount of money that Ja	ack and Meili had was \$	7 more than the
•	otal amount of Jack and Raj had.		
ı R	f Raj's amount was 4 times of Jac	k's amount, how much	more money did
•	Meili have than Jack?		
	·		
		•	
	••	•	.
•			
			:
			•
		Ans:	[4]

15 A number of people visited the Bird Park last Saturday.

The ratio of the number of adults (excluding senior citizens) to the number of children is 3:5.

The ratio of the number of adults to the number of senior citizens is 4 : 1. The entrance fees were shown below:

Admission	Prices for each ticket		
1 Child	\$9.50		
1 Adult	\$18.50		
1 Senior citizen	. \$8.00		

⇒ Bird Park collected \$7 848 on that day. How many children visited the Bird Park on that day?

Ans:	[5
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The figure below, not drawn to scale, is made up of Square A, Rectangle B and Circle C overlapping one another.

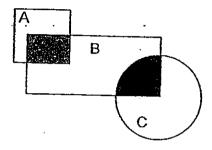
The ratio of the area of Square A to the area of Rectangle B is 1:3.

The ratio of the area of Rectangle B to the area of Circle C is 2:1.

 $\frac{1}{3}$ of Square A and $\frac{1}{4}$ of Rectangle B are shaded.

The total unshaded area is 64 cm².

Find the area of Circle C.



Ans:			[5
------	--	--	----

Gina, Sally and Zubaidah had a collection of 1 112 stickers.

 ¹/₄ of Gina's sticker collection was 28 stickers more than ¹/₂ Sally's collection.

 Zubaidah's sticker collection is ¹/₃ of Sally's sticker collection.

How many stickers did each of the girls have?

Ans: Sally:_____}
Gina:______} [5]

Zubaidah:______}

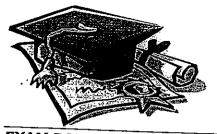
Kelly had 240 stickers more than Jack at first. 18 After Kelly gave away $\frac{1}{5}$ of her stickers and Jack gave away $\frac{3}{4}$ of his stickers, they had 507 stickers altogether. How many stickers did Kelly have at first? How many stickers did Jack give away? (b)

End of Paper

Ans: a)

[1]







EXAM PAPER 2012

SCHOOL: ROSYTH

SUBJECT: PRIMARY 6 MATHEMATICS

TERM : CA1

	••	
1 Q2 Q3 Q4 Q5 Q6 3 4 2 2 3 3	07 00 00 010	
3 4 2 2 3 3	3, 30 0a 010 G	1 Q12 Q13 Q14 Q15
	4 3 3 3 2	2 4 3 3

16)740000

17)21/4

18)1/8

19)103

20)5:3

21)6

22)1/18

23)\$(19h/4)

24)(8h+10)

25)square Prism

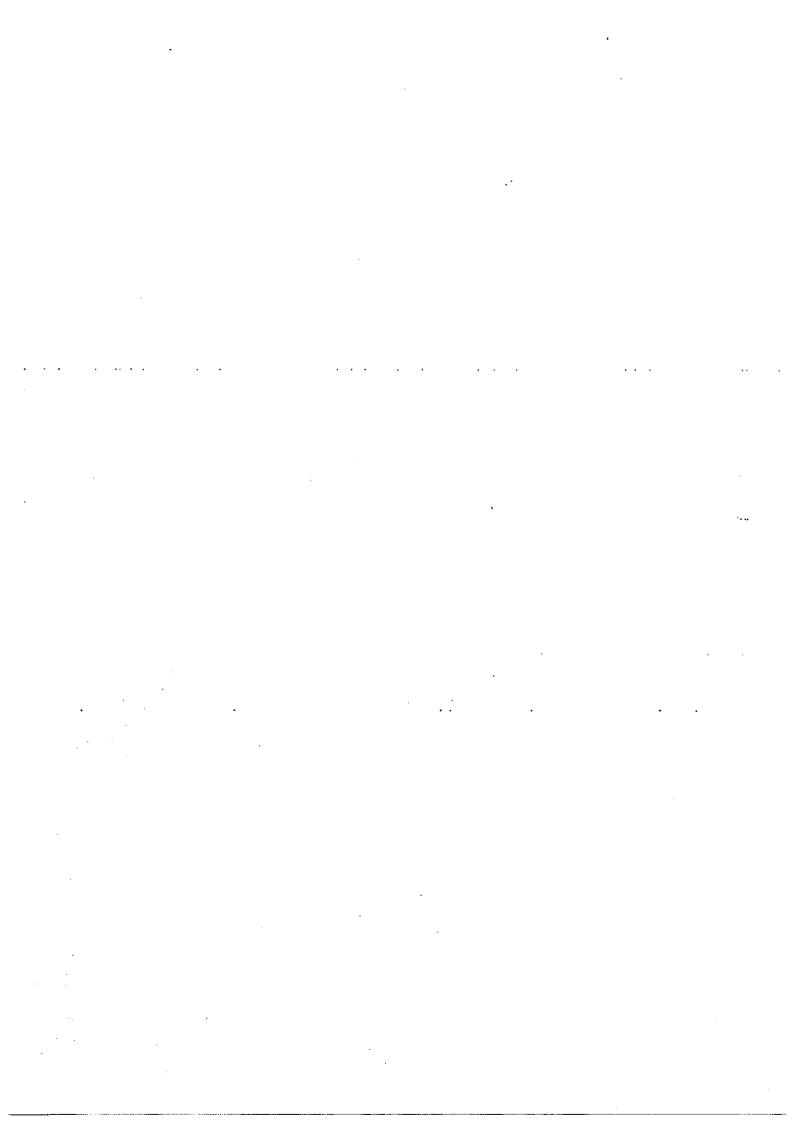
26)2

27)19

28)40

29)\$120

30)21



	P6 Math CAI (Vaper 2)	
1.	7	
2.	192 ÷ 2 = 96 days	
	96 ÷ 7 = 13 r 5 (13 weeks and 5 days) or (13.7 weeks) > 0.7 x 7≈ 5 days	
	Tue, wed, thurs, fri, sat (five days later starting from tues) → Sat or on the 96 th day	
3.	5 1 (3)	
	$\frac{5}{4} \div \frac{1}{3} = 3\frac{3}{4}$) preceding $\frac{1}{4} \div \frac{1}{4}$ Or $3 \times \frac{1}{3} = 1$	
	Tallagia in in in	
	$\frac{3}{4} \times \frac{1}{1} = \frac{1}{4} \text{ peices } \frac{5}{5} = \frac{5}{4} - 1 = \frac{1}{4}$	
	$\frac{3}{4} \times \frac{1}{3} = \frac{1}{4} \text{ points} \frac{5}{4} - 1 = \frac{1}{4}$	
	<u> </u>	
4.	3u → 36 (square)	<u>.</u>
	$1u \to 36 \div 3 = 12$	
	2u → 2 x 12 = 24 (Triangle) 2· 3 24 ÷ 3 = 8	
5.	Model method	
	The state of the s	
	M	
	[M: w:/c]	
	(6): 3:(5)	-
n	Branching Method (C)	
	3 (-1)	
	$\sqrt{2}$ (0) $(2 * 1 * 2)$	ļ
	People $\frac{3}{8}(w) \left(\frac{3}{8} x \frac{4}{7} = \frac{3}{14} \right)$	ļ
[160 pte 8 7 14/	
	$\frac{4}{7}$ (W+C)	
	7 (8)	
	5(0) (5 4)	
	Patio Mathed $\frac{5}{8}(c)\left(\frac{5}{8}x\frac{41}{7} = \frac{5}{8}\right)$	
	Ratio Method	
-	(M): W+C: T	1
		ľ
X 2	3; 4; 7	ŀ

14

Answer: 6:5

6. $y \div 2 = (\frac{y}{2})$ (a) $\$(\frac{y}{2}) - \$178 = \$(\frac{y}{2} - 178)$

> (b) $$568 \div 2 - $178 = 106

7. 6u → 8640

(children) 1u → 8640 ÷ 6 = 1440 € 1440

(No. of children who took part) 1440 - 80 = 1360

(women + children who took part)1360 x 3 = 4080 €

(total took part in the end) 8640 - 80 - 80 = 8480

(men) 8480-4080=4400

(adults) 5u → 7200 (1440×7=7×20)

(men) 7200 - 80 - 1360 - 1360 = 4400

8.

	1	2	3	4	5	6	7	8	9
8	8	160	كالم		1		No	4	7 γ
-16·		_				1			56
6									54
+2								- (56

8 - 6 = 2	
1.6 + 2 = 18	
$18 \div 2 = 9$	

8XI

6 X

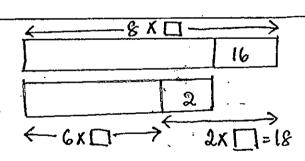
16 +2 =18

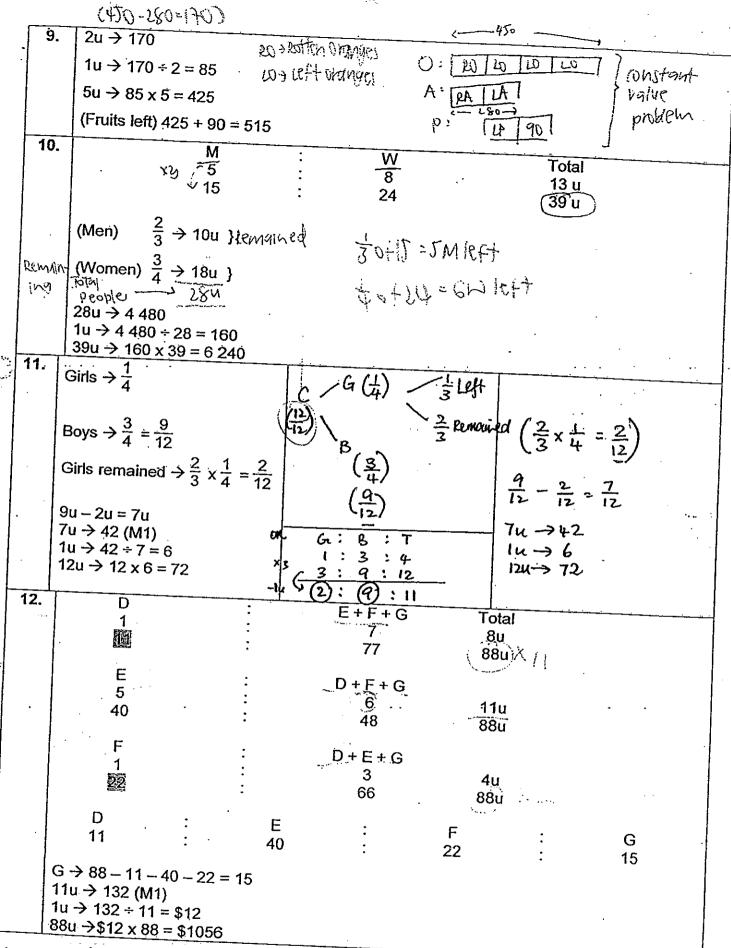
50 2 X 1 =18

] must be 9

2+16=18 8-6=2

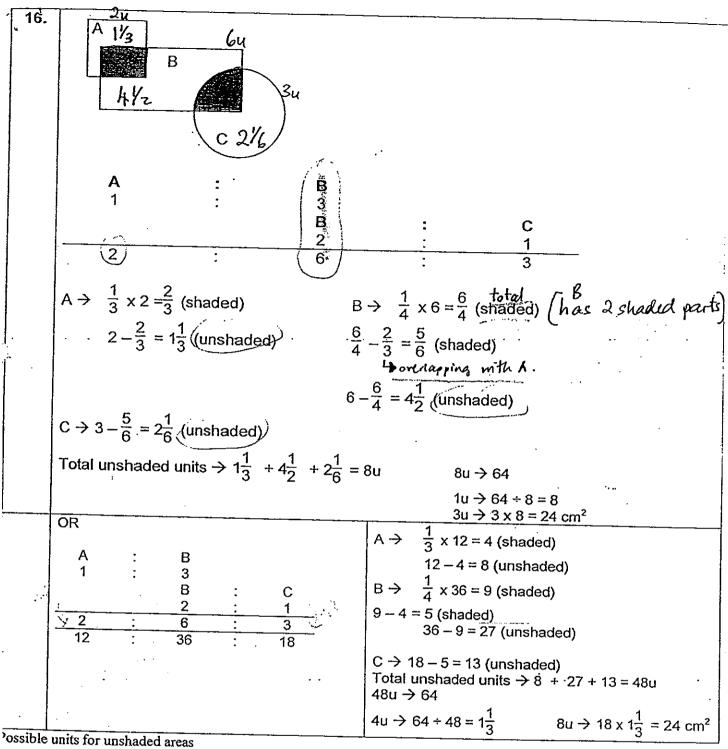
18-2=9





lationship between D and F³
D: F
1:2 (any equivalent)

	·	•
13.	$\frac{1}{-} \rightarrow 25 + 98 = 123$	
	1 whole → 123 x 4 = 492	
	$\frac{2}{3} \rightarrow 492 + 14 = 506$	
	$\frac{1}{3} \rightarrow 506 \div 2 = 253$	
	Friday → 253 + 14 = 267 OR	
	(Total) 1 whole \rightarrow 253 x 3 = 759 Friday \rightarrow 759 - 492 = 267	
15.	(i4 ≥5 s :	A : C : 5
	1 12 Adults → 12 x 18.50 = 222 20 Chlidren → 20 x \$9.50 = 190 3 Senior Citizens → 3 x \$8.00 = \$24	£ (20)
	222 + 190 + 24 = 436 436u → \$7 848 (M1) 1u → 18 sets of visitors 18 sets → 18 x 20 = 360	
17	G → 12u + (28 x 4 = 112) S → 6u Z → 2u	4128/41285212 1 15 X 6 4 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
•	12u + 112 + 6u + 2u = 1 112 20u → 1 112 - 112 = 1 000 1u → 1 000 ÷ 20 = 50 S → 300 G → 712 Z → 100	1872-150 1872-150 1872-150
18.	Before: K → 20u + 240 J → 20u (LCM of 4 and 5 is 20)	What is Left: $(K + J) \rightarrow 16u + 192 + 5u = 507$ $21u \rightarrow 507 - 192 = 315$ $1u \rightarrow 315 \div 21 = 15$
	After: What is Left	(a) K → 20u + 240 = 540 (M1, A1)
•	$K \rightarrow \frac{4}{5} \times 20u = 16u + \frac{4}{5} \times 240 = 192$	(b) 15u → 225
o	$K \to 16u + 192$ $J \to \frac{3}{4} \times 20u = 5u$	



Jnshaded Units Area A	Unshaded Units Area B	Unshaded Units Area C	Total Unshaded Units	Units for Circle C
1/3	4 1/2	2 1/6	8	3
	13 ½	6 1/2	24	9
C		Harris Anna Control	*E489	188
0	54	26	96	36
2	108	52	192	72
8	162	78	288	108