

RAFFLES GIRLS' PRIMARY SCHOOL SEMESTRAL ASSESSMENT 1 MATHEMATICS (PAPER 1) PRIMARY 5

INGILIE.	<u> </u>		'
Form Class: P5		Banded Math Class	: P5
Date: 8 May 2012		Du	ration: 50 min
Your Score (Out of 100	marks)		
Your Score (Out of 40 m	narks)		
		Banded Math Class	Level
PAPER 1	Highest Score		
(40%)	Average Score		
TOTAL (400%)	Highest	-	
TOTAL (100%)	Average Score		
Parent's Signa	ture		

INSTRUCTIONS TO CANDIDATES

- 1. Do not turn over this page until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Answer ALL questions and show all working clearly.
- 4. NO calculator is allowed for this paper.

SECTION A (20 marks)

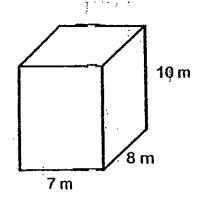
Questions 1 to 10 carry 1 mark each. Question 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade your answer (1, 2, 3 or 4) on the OAS provided. All diagrams are not drawn to scale

- 1. Which one of the following has the digit 1 in the millions place?
 - (1) 10 000
 - (2) 100 000
 - (3) 1 000 000
 - (4) 10 000 000

- 2. $1978 \times 75 = 1978 \times 26 +$ ____ $\times 1978$
 - (1) 49
 - (2) 51
 - (3) 75
 - (4) 101

)

Find the volume of the cuboid shown below. 3.



- $56 \, \mathrm{m}^3$ (1)
- 112 m³ (2)
- 420 m³ (3)
- 560 m³ **(4)**

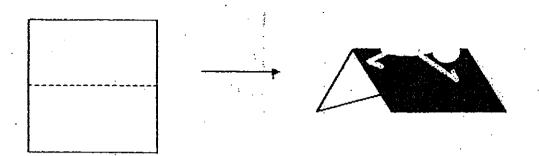
$\frac{3}{4}$ has the same value as _____

- (1) $3 + \frac{1}{4}$ (2) $3 \frac{1}{4}$ (3) $3 \times \frac{1}{4}$
- (4) $3 \div \frac{1}{4}$

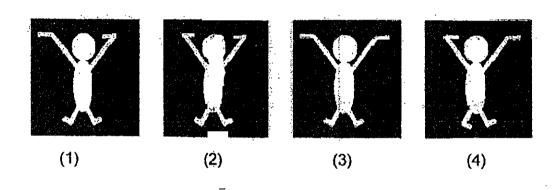
5. Express
$$\frac{33}{9}$$
 as a mixed number. The answer is _____.

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

b.	All folded a piece of paper in half along the dotted line and cut the shape as
	shown below.:



When Ali unfolded the paper, which one of the following shows the correct shape of the cut out?



- 7. Find the product of 1.28×7 Which digit is in the hundredths place?
 - (1) 6
 - (2) 2
 - (3) 8
 - (4) 9

8.	Expre	ess 0.125 as a fraction in its lowest term.		
	(1)	1/4		
	(2)	1 8		
	(3)	$\frac{1}{40}$		
	(4)	1 125	()
9.	6:1	15 = 14 :		
	What	t is the missing number		
	(1)	7		
	(2)	17		
	(3)	23	-	
	(4)	35	()
10.	neare	umber of people at a stadium when rounded off to the est thousand was 64 ooo people was the largest possible number of people in the stadium?		
	(1)	63 499		
	(2)	63 999		
	(3)	64 499		
	(4)	64 500	()

11.	$\frac{3}{5}$ of	a ☆ is 225	5.				
٠	What	is the value o	ıf \$\dot\dot\dot\dot\dot\dot\dot\dot\dot\dot				
	(1)	45					
	(2)	75					
	(3)	150					
	(4)	375				()
12.	Whic	h one of the fonetry?	ollowing letters de	pes not have any	line of		
	,			:			
		A	H	S			
	(1)	Α			·		
	(2)	- H					
		S					
	(3) (4)	V				()
•	(4)	v				•	,
13.	What	is the sum of	the common fac	tors of 12 and 48	?		
	(1)	27				•	
	(2)	28			:		
	(3)	36					

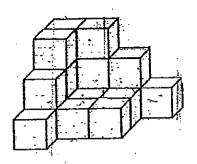
)

(4)

60

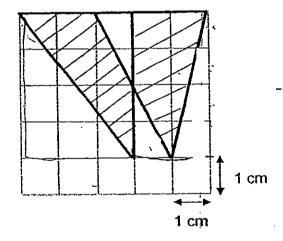
14. The solid below is made up of some identical 2-cm cubes.

What is the volume of the solid?



- (1) 19 cm³
- (2) 38 cm³
- (3) 136 cm³
- (4) 152 cm³

15. What is the total shaded area in the figure below?



- (1) 10 cm²
- (2) 11 cm²
- (3) 12 cm²
- (4) 13 cm²

SECTION A (20 marks)

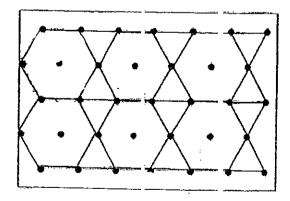
Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units give your answers in the units stated. All diagrams are not drawn to scale. Answe s in fractions or ratio must be expressed in the simplest form.

16. Form the biggest possible odd number with the following digits.

0, 2, 3, 4, 5, 6

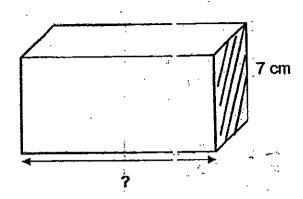
Ans:			

17. From the tessellation provided below. Shade one unit shape of the tessellation.



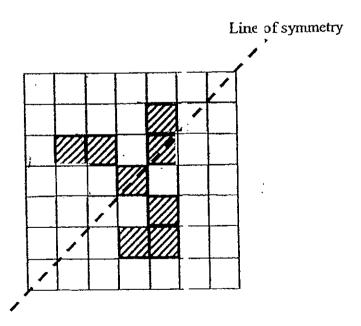
18. The volume of the box shown below is 441 cm³.

if the shape of shaded area square, find length of its base.



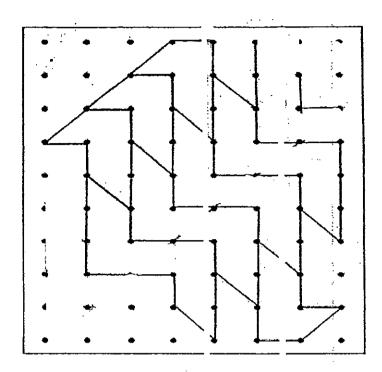
Ans:	CIT

19. Shade 2 squares to make the figure below symmetrical.



20. The pattern in the box below shows a bart of a tessellation.

Extend the tessellation by drawing 2 more unit shapes within the box.



21. Sally had $8\frac{1}{5}$ kg of flour. She used $3\frac{1}{4}$ kg of the flour to make a cake.

How much flour had she left?

22. Express $2\frac{6}{7}$ as a decimal correct to 2 decimal places. Sharon bought 8 erasers at \$1.35 each. She gave the cashier \$50. How much 23. change did she receive? Āris: \$-____ Mutiara changed \$100 into 20-cent coins only. How many 20-cent coins did 24. she receive? Arrange the fractions below in ascending order. 25. $\frac{4}{7} \qquad \frac{7}{5} \qquad \frac{7}{4} \qquad \frac{4}{5}$

Ans: _____

Questions 26 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the space provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale. Answers in fractions or ratio must be expressed in the simplest form.

26. Fill in the blanks with the correct symbols, number sentence is correct.

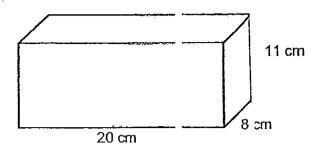
uch that the

27. Find the missing number in the blank

$$57.81 = 57 + ? + 100 + 0.01$$

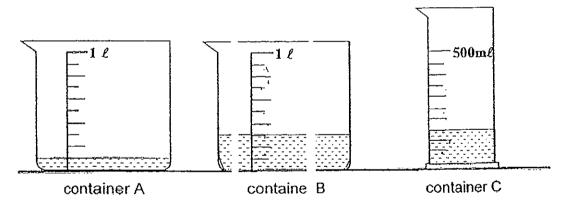
Answer:

28. What is the maximum number of 2 -cm cubes that can be put inside the rectangular tank measuring 20 cm by 8 cm b 11 cm?



Ans:

29. There are 3 containers filled with some water as shown below.



All the water in containers B and D is poured into container A without any water spilling over. What is the amount of the water in container A now? Express your answer in litres.

Ans: _____ ℓ

30. A set of Christmas tree lighting has 3 different types of colour bulbs. All the red bulbs flash at 2 minutes inverval. All the green bulbs flash at 4 minutes interval and all the yellow bulbs flash at 5 minutes interval.

All colour bulbs flash together when the lighting is first switched on. How many more times will all the three colour bulbs flash together if it is turned on for $1\frac{1}{2}$ hour?

Ans:		
MID.		

End of aper© Please sheck you work carefully ©

Setters: Mr. Ho Kai Huat Mr. Tan Siew Whatt Mr. Darren Lau



RAFFLES GIRLS' PRIMARY SCHOOL SEMESTRAL ASSESSMENT 1 MATHEMATICS (PAPER 2) PRIMARY 5

Banded Math Class: P5		
1 h 40 min		
Level		
-		

INSTRUCTIONS TO CANDIDATES

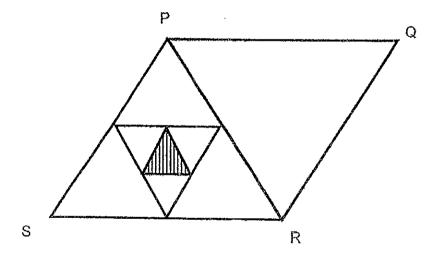
- 1. Do not turn over this page until you are told to do so.
- 2. Follow all instructions carefully.
- 3. Answer ALL questions and show all working clearly.
- 4. The use of calculator is allowed for this paper.

prov Figu	estions 1 to 5 carry 2 marks each. Show your working clearly in the space vided for each question and write your answers in the spaces provided. are not drawn to scale. questions which require units, give your answers in the units stated. (e 10 marks)
1.	There were 108 girls and 115 boys participating in VoiceBox audition. $\frac{1}{4}$ of the girls and $\frac{1}{5}$ of the boys made it to the final round. What fraction of the children made it to the final round?	-
	Aris:	[2]
2.	A robot is able to saw a metal pole into 4 pieces in 12 minutes. How long will it take to saw an identical metal pole into 12 pieces?	-
	Ans	min [2]
3.	There were 520 children taking part in a kid's race. 240 of them w What was the ratio of the number of girls to the number of boys?	ere girls.
	Ans:	[2]

4. $\frac{2}{5}$ of Andy's cookies is equal to $\frac{3}{4}$ of Ben's cookies. What is the ratio of the number of Andy's cookies to the number of Ben's cookies?

_		
Ans:	f	47'
, 4110°		Z

5. The figure below is made up of equilateral triangles. _ _ If the area of the shaded triangle is 24 cm², what is the area of the figure PQRS?

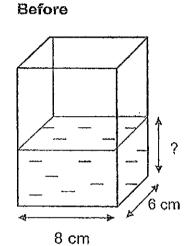


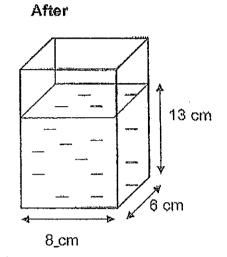
Ans:	 cm ²	[2]

For questions 6 to 18, show your working clearly in the space provided for each question and write your answers in the spaces provided. Figures are not drawn to scale. The number of marks available is shown in the brackets [] at the end of each question or part-question. (50 marks)

6. There was some water in the tank as shown in the diagram below.

When 288 cm³ of water was poured into the tank, the height of the water level increased to 13 cm. What was the height of the water in the tank at first?

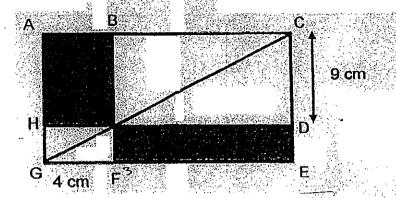




Ans:	[3]	
	 L ~ J	

r	mangoes the ra	atio of the nu	eaches in the ramber of mango er of mangoes.	es to the numb	er of peaches
					· .
		,			
					-
				Ans:	<u>[3</u>

8. In the rectangle ACEG shown below, The area of triangle GOF is वि of the area Of triangle COD



- (a) Find length OD if the area of triangle GOF is 6 cm²
- (b) Find the total area of the shaded parts

2	2	-	
	4	2	2

(b) [2]

Mrs Lim is thrice as old as her daughter now. Given that she is 24 ye than her daughter. How many years ago was Mrs Lim four times as daughter?	, ,
· · · · · · · · · · · · · · · · · · ·	
	•
general and the second of the	
	_
·	
	•
Ane	£:

21

10. The 16 boxes below are filled with numbers starting from 1 to 16. Each number can only appear once.

	4	Α		14		5
	6	13		12	D	
	9	2	В			16
С		8		1		10

$$10 + 1 + 8 + C = \odot$$

- (a) Find the yalue of C ⊢ D
- (b) Find the value of ②

Ans	: (a	ı)	£:	2]
, 111-3	. (~	4	1,	-1

11. Rebecca and Stephanie spent \$800 altogether during a trip.

 $\frac{1}{3}$ of Rebecca's spending was \$45 more than $\frac{1}{4}$ of Stephanie's spending.

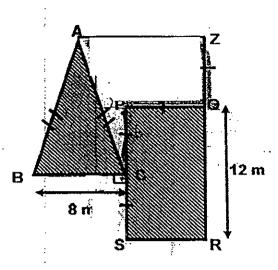
How much money did Stephanie spend during the trip?

Ans: _____[4]

12. There were 20 more pears than plums at a truit stall. After $\frac{1}{5}$ of the pears and $\frac{3}{10}$ of the plums were sold, there were 46 pears and plums left. How many plums were left over?

Ans: _____[3]

13. The figure below is made up an isosceles triangle ABC, rectangle AQRS unshaded part AZQOC. Area of triangle ABC is $\frac{2}{3}$ of the area of rectangle PQRS.



- (a) Find the area of triangle ABC.
- (b) Find the area of the unshaded part in the figure.

Ans: (a)_____[1

(b)____[3]

			is as long as head p	
	<u> </u>	body is as long a	as the head and tail to	gether. what is
the length of th	ne toy crocodile?			
	·			
		•		
	:		_	
			- _	
	·			
		••	Ans :	

- 15. Bala had a box with 4 files. The box and 4 files weighed 11.16 kg.
 Then, he added 2 more files and 5 books into the box.
 The mass of the box with all the fires and books became 20.29 kg.
 if the mass of a file is 3 times the mass of a book.
 - (a) Find the mass of the box.
 - (b) Bala could only lift a maximum mass of 15 kg.

What was the least number of file(s) that he could remove from the box so that he was able to lift the box?

Ans: (a)		_[3]
(h)	٠,	ោ

16. Four sisters, Alice, Betty, Charmaine and Dollv had a total of 260 sweets at first. Mother gave Alice 20 more sweets; Betty ate 10 sweets; Charmaine bought some sweets and her share doubled; and Doily gave half of her sweets away. As a result, they had the same number of sweets left. How many more sweets did Dolly have than Charmaine at first?

- 17. During a fund raising project, class 5A raised $\frac{2}{3}$ as much money as the total amount raised by classes 5B and 5C. Class 5B raised $\frac{1}{5}$ as much money as the total amount raised by class 5A and 5C.
 - (a) What fraction of the funds was raised by class 5A?
 - (b) Class 5B raised \$104 less than class 5C. How much money did class 5C raise?

Ans: (a)	[2]

(b)	[S	3]
` '		

- 18. The ratio of the number of girls to the number of boys taking part in a swimming assessment was 6:5 The assassment showed that the ratio of the number of girls' swimmers to the number of girls' non-swimmers was 5:2 The ratio of the number of boys' swimmers to the number of boys' non-swimmers was 3:2
 - (a) what fraction of the children were non-swimmers?
 - (b) if there were 30 more boys' non-swimmers than girls'non-swimmers how many swimmers were there altogether.

Ans: (a)	[2]
(0)	ខេរ

-End of Paper-Please check your work carefully ©

Setters: Mr. Ho Kai Huat Mr. Tan Siew Whatt Mr. Darren Lau

Anive sheet

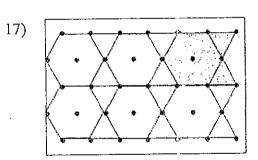
Mathematics 2012

Section A

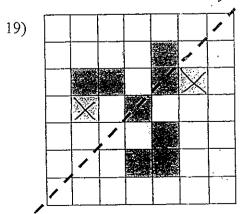
1)	3	6)	.2	11)	4
2)	1	7)	1	12)	3
3)	4	8)	2	13)	2
4)	3	9)	4	14)	4
5)	4	10)	3	15)	1

Section B

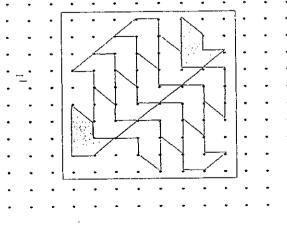
16) 654 203	$4\frac{19}{20}$ kg
17) Refer to answer below	22) 2.86
18) 9 cm	23) \$39.20
19) Refer to answer below	24) 500
20) Refer to answer below	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$



Line of symmetry



20)



Section B

26)
$$10 + (10 \times 10) - 10 = 100$$

27) 80

$$8 \div 2 = 4$$

$$10 \times 4 \times 5 = 200$$

550ml = 0.55 \(\ell \)

30) Start with the largest value:

Yellow (5) 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 Red (2) 10 20 30 40 50 60 70 80 90

60

80

. 40

Green (4)

Ans: 4 times

Section C

Girls (Final round)
$$\Rightarrow \frac{1}{4} \times 108 = 27$$

Boys (Final round) $\rightarrow \frac{1}{5} \times 115 = 23$

Total children (Final round) → 27 + 23 = 50

20

Fraction $\rightarrow \frac{50}{223}$

2) 4 piece → 3 cuts → 12 min

1 cut → 4 m n

12 pieces → 11cuts → 44 min

3) Answer: <u>6:7</u>

$$\frac{2}{5}$$
 $\frac{3}{4}$

$$= \frac{6}{15} \quad \frac{6}{8}$$

Answer: 15:8

5)
$$4 \times 4 = 16$$

$$16 \times 2 = 32$$

$$32 \times 24 = 768 \text{ cm}^2$$

6) After water poured in,

Volume of water \rightarrow 6 x 8 x 13 = 624

Before water was poured in,

$$624 - 288 = 336$$

$$336 \div 8 \div 6 = 7$$

7)

Before

After

Apples: Oranges

5 : 3 25 : 15

Apples: Oranges 5 3 9

15

$$25 - 9 = 16$$

 $16 \text{ units } \rightarrow 96$
 $1 \text{ unit } \rightarrow 6$

At first, 25 units \rightarrow 25 x 6 = <u>150</u>

Length OD \rightarrow 54 x 2 ÷6 = 12 8) .

(b) length BC \rightarrow 6 x 2 ÷ 4 = 3

shaded area \rightarrow 3 x 12 x 2 = 72

9)
$$2U = 24$$

$$1U \rightarrow 24 \div 2 = 12$$

$$3U = 24$$

$$1U \rightarrow 24 \div 3 = 8$$

$$12 - 8 = 4 \text{ years ago}$$

10)

4	11	14	5	
6	13	12	3	
9	2	7	16	
15	8	1	10	

(a) Finding the value of C & D

$$C-D = 15-3 = 12$$

(b)
$$\bigcirc^{-} = 34$$
 .

OR

OIL					
C				19	
А			23		
B.		27			
D	1				

11)
$$$45 \times 3 = $135$$

7 units $\rightarrow $800 - $135 = 665
1 unit $\rightarrow $665 \div 7 = 95
Stephanie $\rightarrow $95 \times 4 = 380

Plums
$$\Rightarrow \frac{1}{5} = \frac{2}{10}$$

Plums $\Rightarrow \frac{3}{10}$
 $\frac{4}{5} \times 20 = 16$

15u + 16 = 46

15u = 30

1u = 2

Plum-(left over) $\Rightarrow 7 \times 2$

= 14

Area of triangle ABC
$$\Rightarrow \frac{2}{3} \times 72 = 48 \text{ m}^2$$

b) height of triangle ABC
$$\rightarrow$$
 48 x 2 ÷ 8 = 12

unshaded area
$$\Rightarrow$$
 6 x.6 = 36
 $\frac{1}{2}$ x 4 x 12 = 24
36 + 24 = 60 m²

= 160cm

```
(a) 20.29 - 11.16 = 9.13
15)
          each book \rightarrow 9.13 ÷ 11 = 0.83
          4 files → 12 books
          0.83 \times 12 = 9.96
          11.16 - 9 .96 = 1.2 kg
      (b) 20.29 - 15 = 5.29
          0.83 \times 3 = 2.49
          5.29 ÷ 2.49= 2.12
          2 + 1 = 3
      Total number of sweets = 260 + 20 - 10
                               = 270
16
             9U = 270
              1U = 270 \div 9
                 = 30
             Dolly = 4U
                   = 4 \times 30
                   = 120
              Charmaine = 30
              Dolly - Charmaine = 120 - 30
                                   = 90
                            5B:5A+5C
       5A:5B+5C
17
        2:3
                             1:5
       x 6 x 6
                            <u>x 5 x 5</u>
                            <u>5 : 25</u>
       <u> 12 : 18</u>
       a) Total 30
       b) 5B:5C
           5:13
       8u -> $104
       1u -> \frac{$104}{8} = $13
```

13u -> \$13 x 13 = \$169

18

No. of girls'

No. of boys



5

swimmers non-swimmers

swimmers non-swimmers

3 21 2 14

(x7)

Total Non-swimmers -> 12 + 14 = 26

12

Fractions ->
$$\frac{26}{77}$$

(b) 14 units - 12 units = 2 units

2 units -> 30

1 unit -> 15

Swimmers -> 30 + 21 = 51 units

No. of swimmers -> 51 x 15