

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

Form class: P		()	
r orm class. Pa	Bande	ed Math Class: P5	_
Date: 29 Octol	ber 2009	Duratio	n: 50 min
Your Score	•		<u>-</u>
(Out of 100	marks)	·	
Your Score (Out of 40 r)		
		Banded Math Class	Level
PAPER 1	Highest Score		·
(40%)	Average Score		
	Highest		
FOTAL (100%)	Average Score		
Parent's Signat	ure		

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.

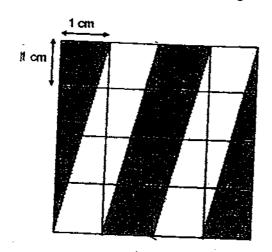
SECTION A (20 marks)

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. A number when rounded off to 2 decimal places is 6.73. Which one of the following is the number?
 - (1) 6.723
 - (2) 6.727
 - (3) 6.735
 - (4) 6.738

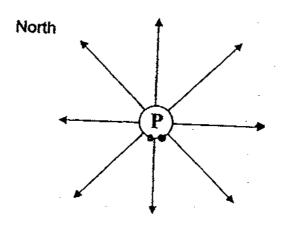
- 2. $\ln \frac{71}{9} = 7 \frac{\Box}{9}$, what is the missing number in the box?
 - (1)
 - (2) 2
 - (3) 8
 - (4) 18

3. Find the area of the shaded region.



- (1) 16 cm²
- (2) 12 cm²
- (3) 8 cm²
- (4) 4 cm²

4. Jensen was standing at point P facing the South-West direction. He made a three-quarter turn to his right. Which direction was he facing?

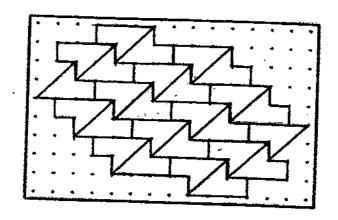


- (1) North-West
- (2) West
- (3) South-East
- (4) East

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5. The pattern in the box below shows part of a tessellation.



Which of the following is the unit shape used in the tessellation above?

(1)



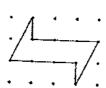
(2)



(3)



(4)



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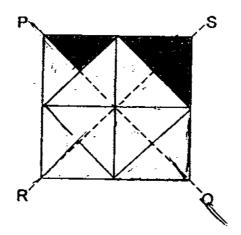
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- 6. A water tank has 375 litres of water. How many 750-ml bottles of water can be filled with the water in the tank?
 - (1) 5
 - (2) 50
 - (3) 500
 - (4) 5000

	7. \	What is 5%	of 240?			***		
	(1) 1.2						
		2) 12						
	(:	3) 120						
	(4	1200						
							(
8	3. 12	$2\frac{1}{50}$ expres	ssed as a deci	imal is	•			
	(1) 1.22						
	(2)	12.2						
	(3)	12.02		4				
	(4)	12.002						
							(•
	410). How man	yellow beads y beads are b	IS 2:3:4.7	he total numi	f blue beads to ber of beads is	5	
	(3)	40 60						
	(4)	80						
	(',	00					(.)
10	The of S Ahm	average ag haron and ad is 10 ye	le of Sharon a Mary is 8 y ars. How old i	and Ahmad is rears. The a s Mary?	s 6 years. The average age	average age of Mary and		
	(1)	16			,			
	(2)	12						
	(3)	8						
	(4)	4					,	
							()

11. The figure below consists of 16 identical triangles. How many more triangles must be **shaded** to complete the figure which has the dotted lines PQ and RS as lines of symmetry?



- (1) 1
- (2) 2
- (3) 3
- (4) 5
- 12. What is the maximum number of 2-cm squares that can be cut out from a rectangular sheet of paper measuring 25 cm by 20 cm?

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(

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- (1) 120
- (2) 125
- (3) 130
- (4) 250
- 13. Fill in the blank.

$$\frac{8}{25} \div 10 = \frac{1}{25} \times \boxed{}$$

- $(1) \qquad \frac{4}{5}$
- (2) $\frac{3}{5}$
- (3) 8
- (4) 80

174.		ratio of the length at is the ratio of th	h of Square A to the length of Square B is 4 : 9. ne area of Square A to the area of Square B?		
	(1)	2:3			
	(2)	4:9			
	(3)	16 : 36			
	(4)	16 : 81	•	(
15 .	He g	ave the apples	to the rest of the hour		
	(1)	6'			
	(2)	7	•		
	(3)	8			
	(4)	9			
				()
			·		

SECTION B (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. Answers in fractions or ratio must be expressed in the simplest form.

16. Arrange the following in ascending order:

0.738, $\frac{3}{5}$, 0.387, $\frac{1}{9}$

17. Joel has 40 fifty-cent coins. Andy has 15 twenty-cent coins. How much more money does Joel have than Andy?

Ans: \$

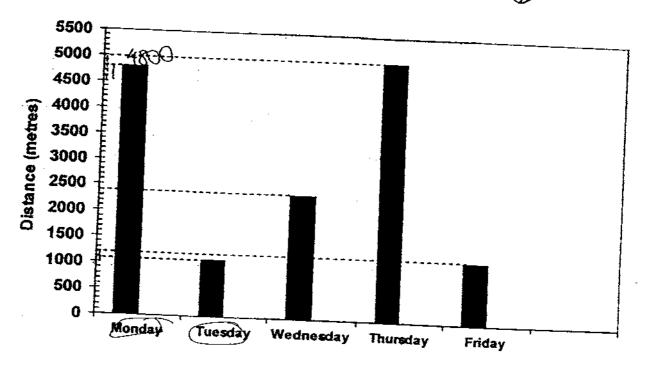
Minah had $5\frac{1}{3}\ell$ of water. She drank $\frac{3}{4}\ell$ of the water. How much water did she have left?

Ans: ____ ℓ

Su Yin has $\frac{3}{4}$ m of ribbon. She cut the ribbon into 6 equal pieces. What is the length of each piece of ribbon?

Ans: _________

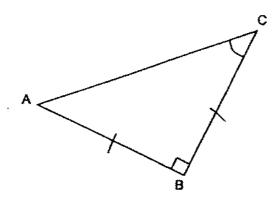
20. The graph below shows the distance jogged by Mr Wong each day.



What was the total distance covered by Mr Wong for Monday and Tuesday?

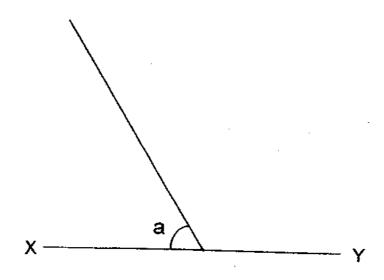
Ans: ____ m

21. Triangle ABC is an right-angled isosceles triangle. Find ∠ACB.



Ans: ____

22. The figure, on the right, is drawn to scale. XY is a straight line. Measure ∠a.



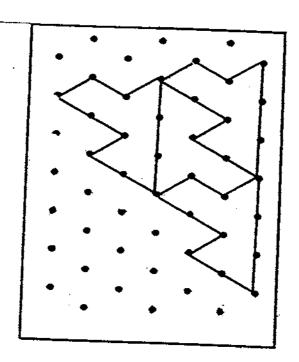
Ans: _____

23. Express 0.08 as a fraction in its simplest form.

Ans: _____

24. The pattern in the box shows a tessellation using a unit shape.

Extend the tessellation by drawing two more unit shapes in the space provided in the box.



25. There are 1800 workers in a factory.

450 of them are female.

What percentage of the workers in the factory are females?

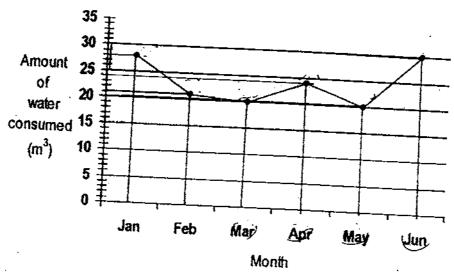
Ans: _____%

que not	SURTION	in the space pro units stated. All di be expressed in the	ovided. For agrams are simplest
	Ali was given 0.18 litres of cough mixture by the 10 ml of it every 4 hours. How many days would cough mixture?	doctor. He had to the heat take to finish the	ake e
		Ans:	days
27.	The average weekly savings of 10 girls is \$5. The boys is \$2. What is the average weekly savings of	average weekly sa the 15 children?	vings of 5
	· ·	Ans: \$	
28.	The volume of a cuboid is twice the volume of 4 sin The length of each side of the cube is 4 cm. What is the volume of the cuboid?	nilar cubes.	-
		Ans [.]	om ³

29. Line AC is a side of a right-angled isosceles triangle. Complete the triangle ABC with \angle ACB = 90° .

AC

30. The line graph below shows the amount of water consumed by Mr Lee's family from January to June.



The amount of water used is charged at a rate of \$3 per m³. What was the amount paid by Mr Lee's family for the utility bills from March to June?

Ans: \$

Please check your work carefully

Setters: Lee S.K., Wai S. H., Teo W. T.



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

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Banded N	Math Class: P5	
	-	on: 1 h 40 min
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-	Banded Math Class	Level
	Banded N	Banded Math

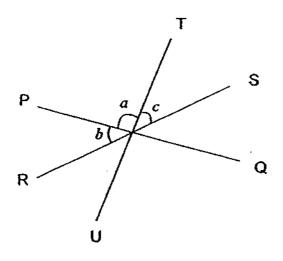
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Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

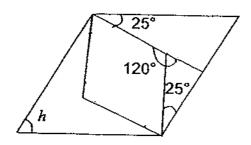
1. In the figure below, PQ, RS and TU are all straight lines.

Given that $\angle a = 75^{\circ}$ and $\angle b = \angle c$. Find $\angle c$.



Ans:_____[2]

2. The figure below is made up of 2 parallelograms. Find $\angle h$.



Ans: _____ [2]

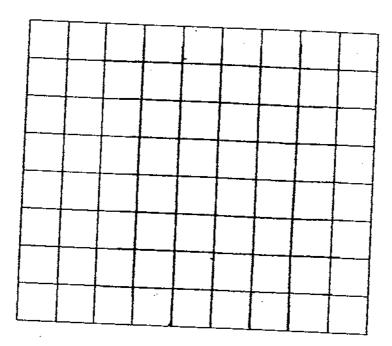


Table A below consists of numbers from 1 to 280.
 Helen is given a plastic frame with 4 squares shaded that can cover exactly 9 squares of Table A.

1	2	3	4	5	6	7
		-				
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	32	33		
***		***				444
		= 4 4	270	271	272	273
274	275	276	277	278	279	280

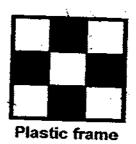


Table A

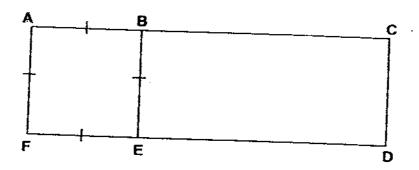
Helen puts the frame on some 9 squares on Table A.

The sum of the 5 numbers that can be seen in the frame is 995.

What is the greatest number that can be seen in the frame?

Ans:	2]
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5. The figure ACDF, with an area of 10/2 cm², is made up of square ABEF and rectangle BCDE.
The area of square ABEF is 36 cm².
What is the length of BC?



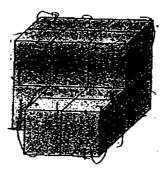
Ans:_____cm [2]

For questions 6 to 18, show your working clearly in the spa question and write your answers in the spaces provided.	
The number of marks available is shown in the brackets [] at the end of each

6. A box weighs 95.75 kg when it is filled with Solid A.
The same box weighs 33.5 kg when it is filled with Solid B.
Solid A is six times as heavy as Solid B, what is the mass of the empty box?

	***	-
Ans:	·	_[3

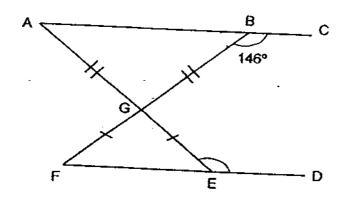
7. The figure below was made up of similar cubes glued together.



- (a) How many cubes were used to made the figure above?
- (b) Meiling painted all the faces of the figure in blue. How many cubes had 3 of its faces painted blue?

Ans: a)	[1]
b)	[2]

8. In the diagram below, AGE, BGF, ABC and FED are straight lines. Find ∠GED.



9. Mr Tan's monthly salary is twice Mr Lee's. His monthly savings is 6 times Mr Lee's. Given that both of them spend \$1000 monthly, how much money does Mr Tan earn?

Ans: _____[4]

	· •••	Ans:	[4]
	• •		
	-· · · · · · · · · · · · · · · · · · ·		
	As a result, the percentage of men increased to 75 at the concert in the end. How many women were at the concert in the end?	% of the number of peo	eu. ple
10.	Out of the 40 000 people at a concert, 30% of them were children and the rest were men. Some women left the concert with half the number		
		`	

11.	There are thre the purple light minutes. All the lncluding the flumes will you see 60 minutes?	ree neon lights	flash togethe	r when you wa	gnt flashes e alk into the s	ninutes, every 12 shop.
	•			·		
				•		
	:		•			
		•				
						-

Ans:_

12.	Mrs Chan had son her shoes. She the watch. She again s \$250 left. How much	ment balf of th	o monor that	and \$ 100 more	100 more on to buy a se and had
			_		
		· ·	•	·	·
				Ans:	[4]

13. Priya gave \$800 to her mother.

She then spent $\frac{5}{8}$ of her remaining money to buy a laptop.

If she still had $\frac{3}{10}$ of her money left, how much money did she have at first?

Ans: _____[4]

14. The series of figures below are made up of dots and lines.

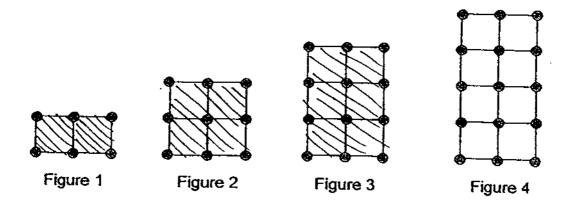


Figure	1	2	3	4
Sum of lines and dots	13	21	29	37

- a) Find the sum of lines and dots in Figure 8.
- b) Find the figure which has a sum of 205 lines and dots.

Ans: (a) _____[1]

15.	A hours of the					in the second	Quest M
13.	A bus driver change \$75 In September, the trips were late.	he hus driver	anmod &	2260 60			is late, he can
		How many trip	os were o	n time i	, ochtett	iy 20 trip iber?	s ne made, 6
					• .		
							·
			•				
					•		
							•
		·					
					Ans: _		[5]

16.	The average height of a group of boys is 1.64 m. When 2 new boys each of height 1.70 m joined the group, became 1.65 m. How many boys were in the group at the end?	the average height

17. In a school, the ratio of the number of pupils who wear glasses to the number of pupils who do not wear glasses is 11:5.

 $\frac{2}{3}$ of the boys and $\frac{7}{10}$ of the girls wear glasses.

What is the ratio of the number of boys to the number of girls?

Ans: [5]

18.	Mr Muhamad has 3 cubica The length of Tank A is tw twice the length of Tank C. Mr Muhamad filled 20% o water at first. He then dec into Tank A. What percenta	rice the length of Ta of Tank A, 35% of the	Tank B and the length	
			•	
		•		
		•		
		·		
			Ans:	[5]

-End of Paper-Please check your work carefully ூ

Setters: Lee S.K., Wai S. H., Teo W. T.

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Answer Ke

EXAM PAPER 2009

SCHOOL: RAFFLES GIRLS' PRIMARY **SUBJECT: PRIMARY 5 MATHEMATICS**

TERM: SA2

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
2	3	3	3	2	3	2	3	3	2	4	1	1	4	2

16)1/9, 0.387, 3/5, 0.738 17)\$17 18)47/12

19)1/8m

20)5900m 21)45° 22)60°

23)2/25

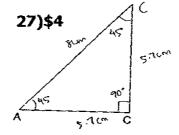
24)

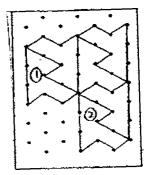
25)25% 26)25/6 days

28)512cm₃

29)

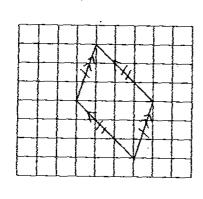
30)\$282





Paper 2

3)



4)207	5)11cm
6)Box +A=95.75kg Box +B=33.5kg 95.75kg-33.5kg=62.25kg 62.25kg÷5=12.45kg 33.5kg-12.45kg=21.05kg The box weighs 21.05kg	7)a)16 cubes b)9 cubes
8)180° -146° =34° 180° -34° -34° =112° 180° -112° =68° 68° ÷2=34° 180° -34° =146° ∠GED is 146°	9)\$1000→4 units \$1000÷4=\$250 \$250x6=\$1500 \$1500+\$1000=\$2500 Mr Tan earned \$2500
10)2400→75% 75%>3 quarter 2400÷3=800 1 quarter→800 20-4=16 16 units left Women left→3 units 3/20x40000=6000 There are 6000 left.	11)6 times
12)\$250x2=\$500 \$500+\$100=\$600 \$600x2=\$1200 \$1200+\$100=\$1300 \$1300x2=\$2600 She has \$2600 left.	13)\$800→2 unit 1 unit→\$800÷2=\$400 \$400x8=\$3200 \$3200+\$800=\$4000 She has \$4000 at first.
14)a)69 b)25	15)20-6=14 14x\$80=\$1120 \$75.50x6=\$453 \$1120+\$450=\$1573 20 trips→14 tine 6 late 2359.50÷1573=1.5 1.5x14=21 trips.

18)25%	B→3x2=6 6:10→3:5 The ratio is 3: 5
16)1.70m→170m 170cmx2=340cm 1.65m-1.64m=1cm 1.70m-1.65m=5cm 5cm+5cm=10cm 10+2=12 There are 12 boys.	17)2B+7G=11 units 1B+3G→5 units 2B+6g→10 units 1 G→1 units 10G→10 units 1B→2 unit

