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

Name: _____ ( )

Form Class: P5 _____ Banded Math Class: P5 _____

Date: 8 October 2013 Duration: 50 min

Your Score (Out of marks)	
Your Score (Out of 40 marks)	
Parent's Signature	

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. Round off 9.155 to the nearest tenths.

   (1) 9.1

   (2) 9.15

   (3) 9.16

   (4) 9.2

2. How many sevenths are there in $2\frac{3}{7}$?

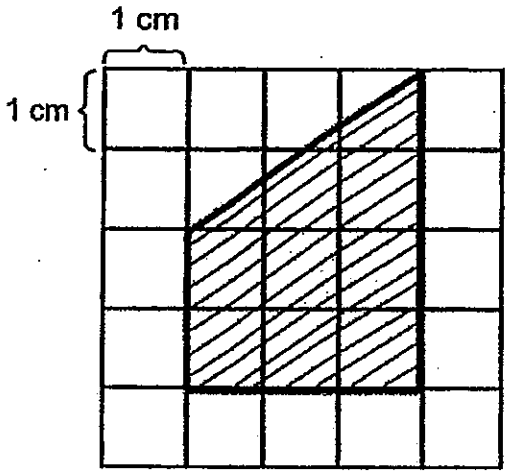
   (1) 12

   (2) 14

   (3) 3

   (4) 17

3. The shaded part of the figure is _____ cm^2.



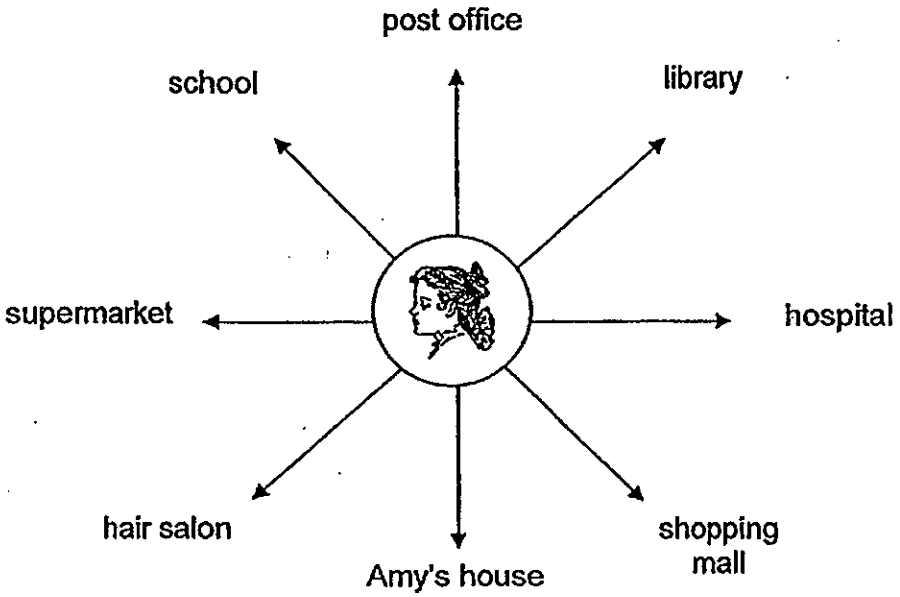
(1) 6

(2) 8

(3) 9

(4) 12

4. Natalie is facing the supermarket now. What is the angle she needs to turn in the clockwise direction so that she can face the library?



(1) 135°

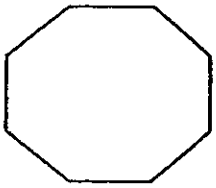
(2) 180°

(3) 225°

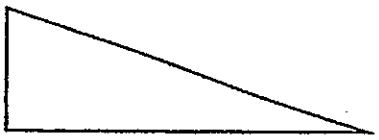
(4) 270°

5. Which one of the following shapes cannot be tessellated?

(1) 

(2) 

(3) 

(4) 

6. A number when rounded off to the nearest thousands is 206 000.
Which of the following can be the number?

(1) 206 095

(2) 206 595

(3) 207 495

(4) 207 595

7. There are 500 people at a carnival. 100 of them are adults and the rest are children. What percentage of the people are children?

(1) 20%

(2) 40%

(3) 60%

(4) 80%

8. Express $6\frac{17}{25}$ as a decimal.

(1) 6.068

(2) 6.6

(3) 6.68

(4) 6.8

9. Joel's salary is $\frac{2}{3}$ of Melanie's salary while Melanie's salary is $\frac{9}{10}$ of Kathy's salary. What fraction of Kathy's salary is Joel's salary?

(1) $\frac{1}{5}$

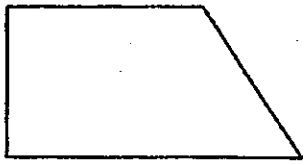
(2) $\frac{3}{5}$

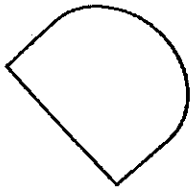
(3) $\frac{3}{10}$

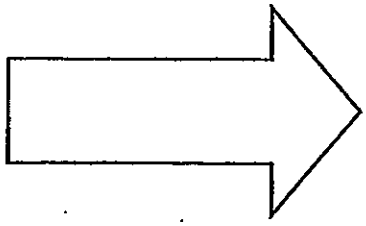
(4) $\frac{2}{3}$

10. Which of the following shapes does not have any line of symmetry?

(1) 

(2) 

(3) 

(4) 

11. Miss Lim bought 2 tables and 8 chairs.
Each table was 6 kg while the average mass of the chairs was 4.5 kg.
What was the average mass of all the items?

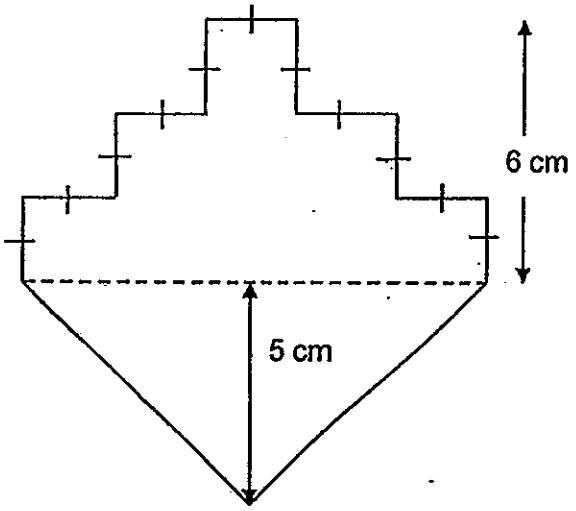
(1) 1.05 kg

(2) 4.8 kg

(3) 10.5 kg

(4) 36.0 kg

12. Find the area of the figure below.



(1) 25 cm^2

(2) 36 cm^2

(3) 61 cm^2

(4) 86 cm^2

13. John had some marbles. $\frac{1}{4}$ of the marbles were red. $\frac{2}{5}$ of the remaining marbles were blue while the rest were yellow. There were 84 blue marbles.
How many marbles did he have altogether?

(1) 112

(2) 140

(3) 240

(4) 280

14. Nat spent $\frac{2}{5}$ of his salary on food. After he had spent another $165 on food, the ratio of his expenditure on food to his salary became 11 : 20.
What was Nat's salary?

(1) $ 275

(2) $ 825

(3) $ 1100

(4) $ 3300

15. $\square \div (2 + 3 \times 6) = 4$. What is the missing number in the box?

(1) 5

(2) 44

(3) 80

(4) 120

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 descending order.

$\frac{1}{4}$, 0.8 , $\frac{7}{8}$, 0.205

Ans: _____ , _____ , _____ , _____

17. Find the value of 30 x 5.81.

Ans: _____

18. Meiling had $2\frac{2}{3}$ kg of butter. She bought another 3.5 kg of butter from the supermarket. How much butter did she have now?

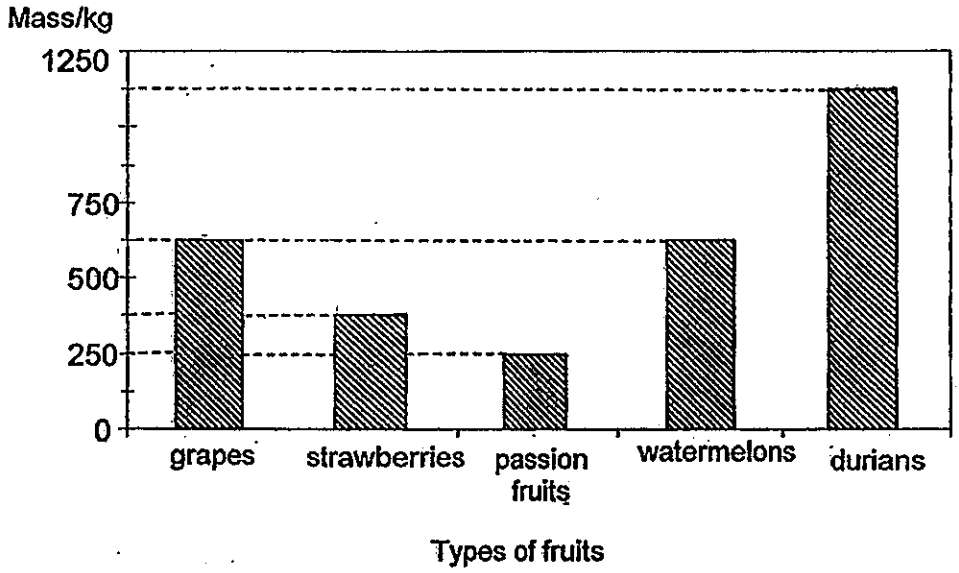
Express your answer as a mixed number.

Ans: _____ kg

19. Malcolm spent $\frac{1}{7}$ of his money on a book. Then he shared the remaining money with three of his siblings. What fraction of Malcolm's money did each of them receive?

Ans: _____

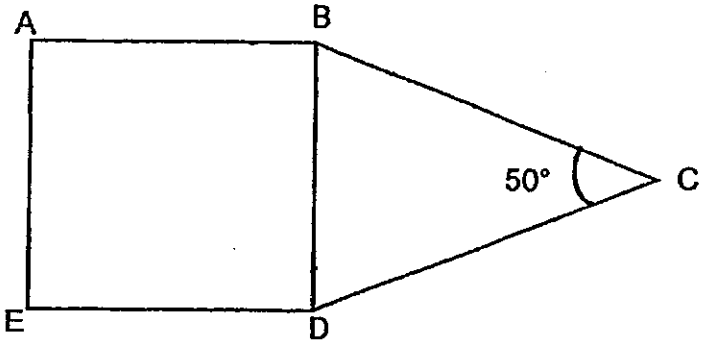
20. The graph below shows the mass of different types of fruits sold by a vendor in January 2013.



What was the total mass of passion fruits, durian and grapes sold in January 2013?

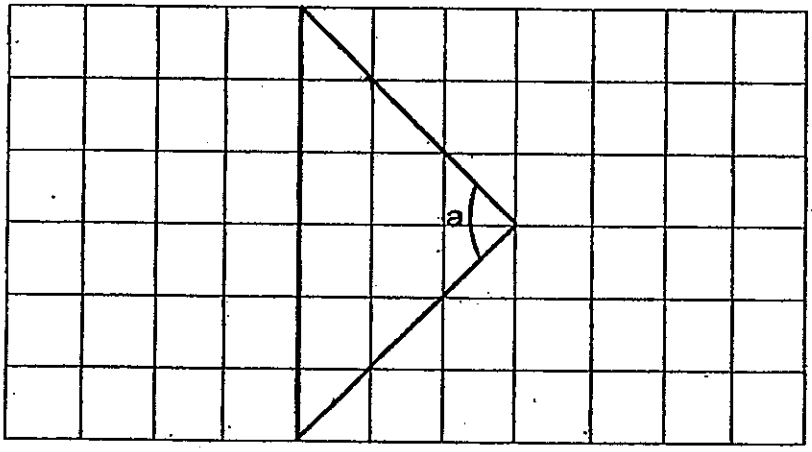
Ans: _____ kg

21 ABDE is a square and BCD is an isosceles triangle.
$\angle$BCD is 50°. Find $\angle$ ABC.



Ans: _____ °

22. The diagram below shows a triangle on a square grid. What is the value of $\angle$ a ?



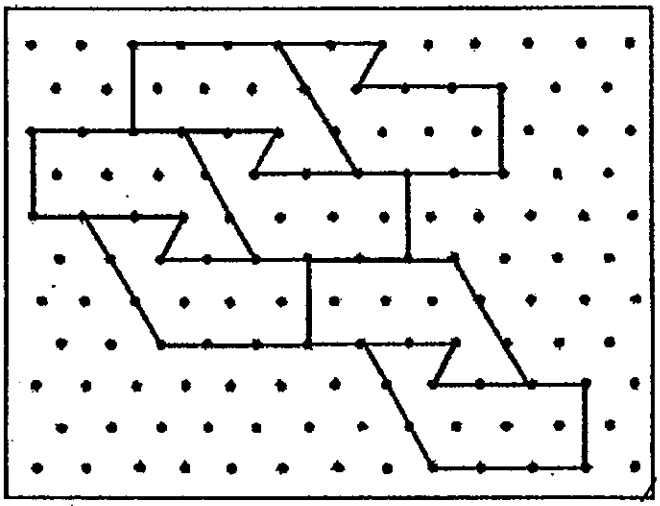
Ans: _____ °

23. The table below shows the volume of cooking oil used by a restaurant in 5 days. What was the average volume of cooking oil used?

Day	Volume (ℓ)
1	12.8
2	15.9
3	16.8
4	11.6
5	14.7

Ans: _____ ℓ

24. Extend the tessellation by drawing **2 more** unit shapes in the space provided **within** the box.



25. There are 240 beads in a bag. 60 of them are green and the rest are yellow. What percentage of the beads are yellow?

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. Lisa ran a distance of 405 m each day. What was the total distance she ran in 7 days? Express your answer in km.

Ans: _____ km

27. $\frac{3}{8}$ of a number is 1.40 . What is the number?
Express your answer as a mixed number in its simplest form.

Ans: _____

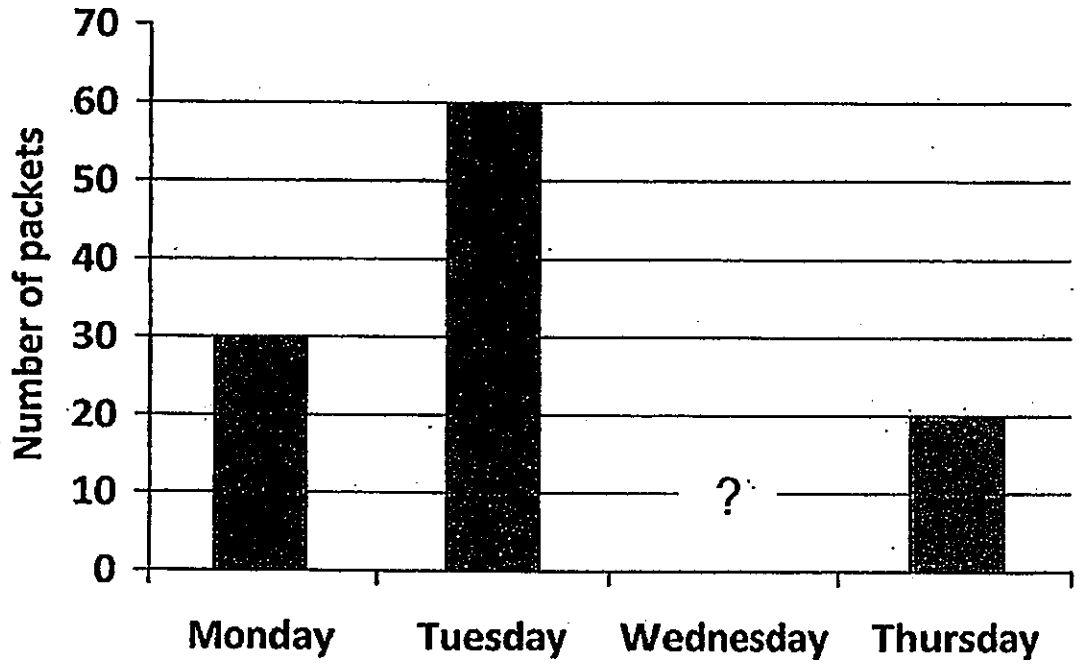
28. A rectangular tank measuring 20 cm long and 10 cm wide contains 4 litres of water. What is the height of the water in the tank?

Ans: _____ cm

29. The bar graph below shows the number of packets of rice sold from Monday to Thursday at a supermarket.

The number of packets of rice sold on Wednesday was $\frac{2}{3}$ of the number of packets of rice sold on Tuesday.

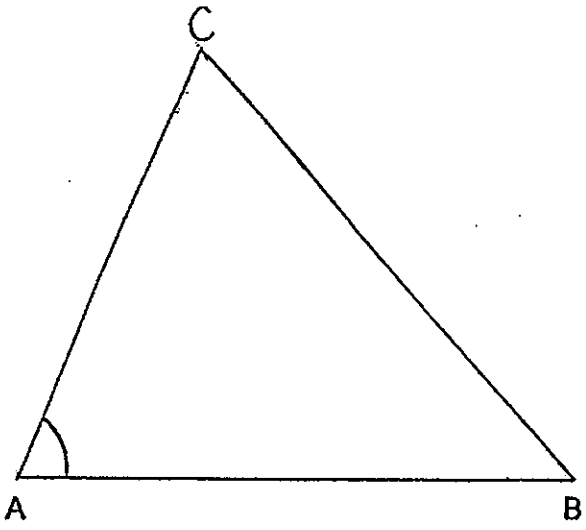
Each packet of rice weighed 5 kg.



What was the total weight of rice sold from Monday to Thursday at the supermarket?

Ans: _____ kg

30. In the space below, draw a triangle ABC in which $\angle BAC = 66^\circ$ and $\angle ABC = 48^\circ$. Line AB has been drawn for you.
Measure and record the length of BC.



Ans: BC is _____ cm

End of Paper
☺ Please check your work carefully

Setters: D. Lau
Luo Z.
Yeo M.

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

Name: _____ ( )

Form class: P5 _____ Banded Math Class: P5 _____

Date: 8 October 2013 Duration: 1 h 40 min

Your Score (Out of marks)		
	Banded Math Class	**Level**
Highest Score		
Average Score		

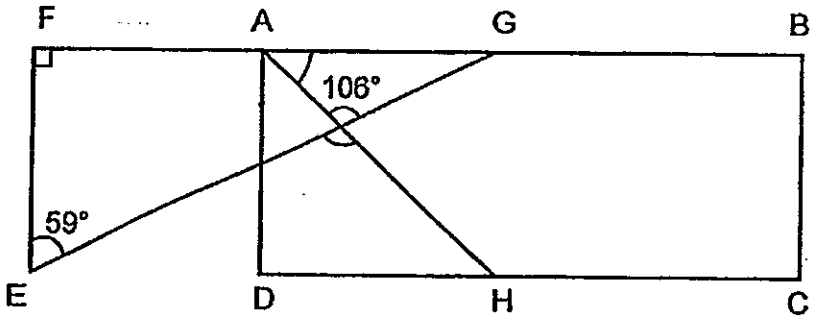
INSTRUCTIONS TO CANDIDATES

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.

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.
Figures are not drawn to scale.
For questions which require units, give your answers in the units stated. (10 marks)

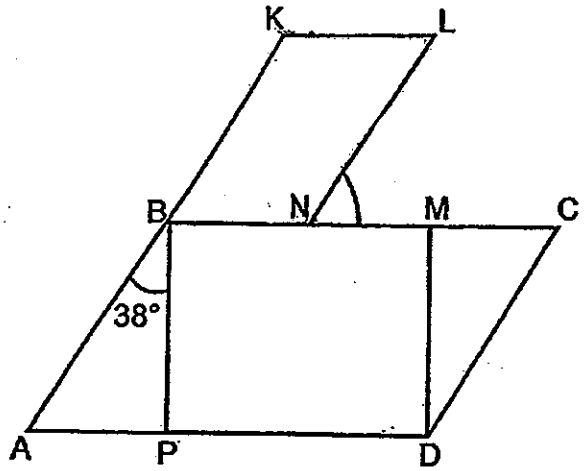
---

1. In the figure below, ABCD is a rectangle. FAB is a straight line. Find ∠ GAH.



Ans: _____° [2]

2. The figure below is made up of 2 parallelograms, ABCD and BKLN, and a rectangle BMDP. ABK is a straight line.
Find ∠ LNC.

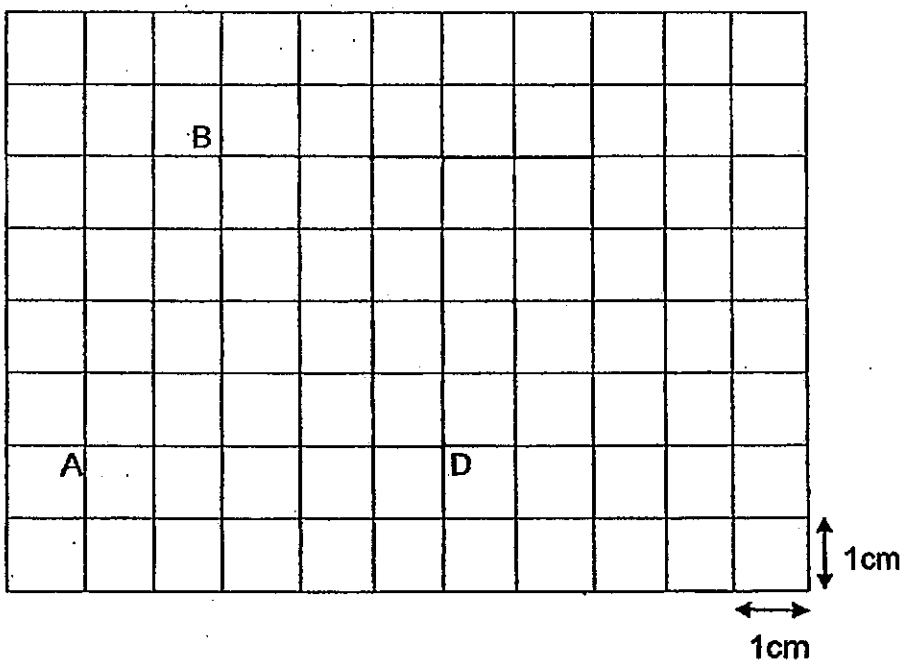


Ans: _____° [2]

3. A 2-digit number is a multiple of 4 and a factor of 60.
The number is between 15 and 50.
What is the sum of the 2 digits of the number?

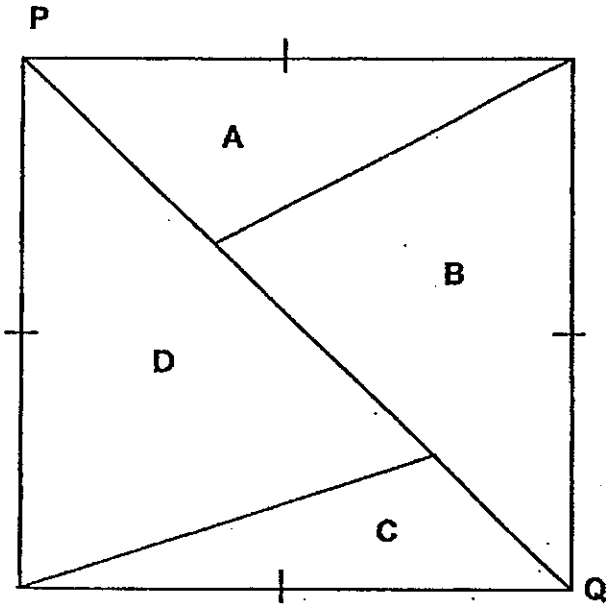
Ans: _____ [2]

4. Complete parallelogram ABCD within the grid provided.
Sides AB and AD have been drawn for you.



[2]

5. The figure below shows a square which is divided into 4 triangles, A, B, C and D. The ratio of the area of A to B to C is 3 : 5 : 2 respectively. Given that the area of D is 96 cm^2, find the area of B.



Ans: _____ cm^2 [2]

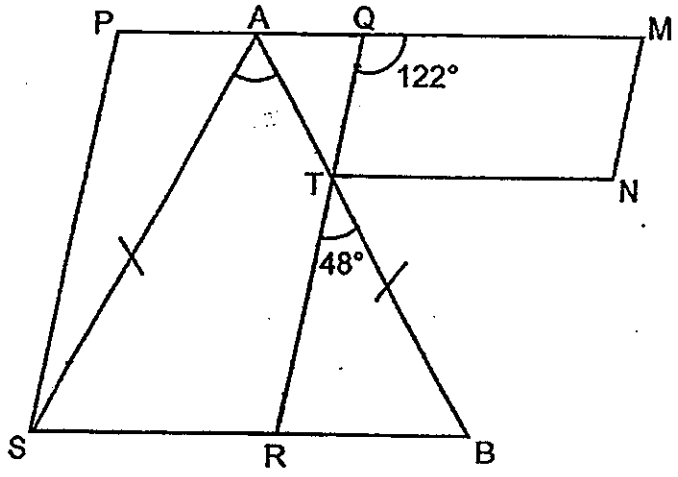
For questions **6** to **18**, show your working clearly in the space provided for each question and write your answers in the spaces provided. Figures are not drawn to scale. The number of marks available is shown in the brackets [ ] at the end of each question or part-question. (50 marks)

---

6. Janice spent $130.40 on a pair of jeans, a dress and a blouse. The pair of jeans cost $18.70 more than the dress and thrice as much as the blouse. How much did the dress cost?

Ans: _____ [3]

7. The figure below is made up of an isosceles triangle ABS and 2 parallelograms, PQRS and QMNT. AS = AB, $\angle$ MQT = 122° and $\angle$ RTB = 48°.
PQM is a straight line. Find $\angle$ SAB.



Ans: _____ [3]

8. The average mass of Joe, Ruth and Melvin is 65 kg.
Joe is 69 kg while Ruth's mass is $\frac{3}{4}$ of Melvin's mass.
What is Melvin's mass?

Ans: _____ [3]

9. Ethan, Freddy and Gary have 146 marbles altogether. Freddy has 9 more marbles than Gary. Ethan has 28 fewer marbles than Freddy.

(a) How many marbles does Ethan have?

(b) How many marbles does Gary have?

Ans: (a) _____ [2]

(b) _____ [1]

10. A school hall has 1120 chairs. Out of these chairs, 25% are grey while the rest are white. How many grey chairs must be added to the school hall so that the number of grey chairs is 30% of the total number of chairs now?

Ans: _____ [4]

11. Alexis bought 85 stickers. Each sticker cost either \$0.55 or \$0.30.
She paid \$38.75 for all the stickers.
How many \$0.30 stickers did she buy?

Ans: _____ [3]

12. June bought 143.4 kg of sugar. She packed some of it into 35 packets of 1.5 kg. The remaining sugar was packed into packets of 0.75 kg.
How much sugar was left unpacked?

Ans: _____ [4]

13. At an old folks' home, the number of residents increased by 15% from 2011 to 2012. However, it decreased by 6% from 2012 to 2013.
The number of residents increased by 81 from 2011 to 2013.
How many residents were there in 2013?

Ans: _____ [4]

14. Tom and Jerry had 1640 stamps at first. After giving away some stamps to their classmates, Tom had 4 times the number of stamps he gave away and Jerry had 3 times the number of stamps he gave away. They had a total of 1280 stamps left. How many stamps did Tom have at first?

Ans: _____ [4]

15. Mrs. Lee made some cookies and packed them in 50 small boxes and 12 big boxes that had an equal number of cookies each.
Each big box had 30 more cookies than each small box.

$\frac{5}{8}$ of the cookies made were packed in small boxes.

(a) Mrs. Lee collected $559.50 after selling all the small boxes of cookies at $8.55 each and some big boxes of cookies at $16.50 each.
How many big boxes of cookies were left?

(b) How many cookies did Mrs. Lee make?

Ans: (a) _____ [2]

(b) _____ [3]

16. A wooden box with 20 identical bottles weighed 20.4 kg. After Chloe placed 8 more identical bottles and 6 more tin cans into the box, the total mass increased to 28.59 kg. Given that the mass of a bottle is 385 g more than a tin can, find

(a) the mass of 1 tin can,

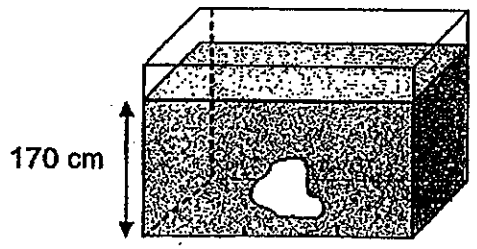
(b) and the mass of the wooden box.

Ans: (a) _____ [3]

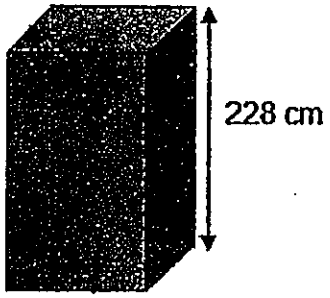
(b) _____ [2]

17. Tank A was empty while Tank B was completely filled with water.
The base area of Tank A is twice that of Tank B's.
The height of Tank B is 228 cm.

All the water from tank B was poured into Tank A and Tank A became $\frac{2}{5}$ filled with water.
After an object of 784 cm³ had been put into Tank A, the water level became 170 cm.
What is the capacity of Tank A?



Tank A



Tank B

Ans: _____ [4]

18. Ali and Ben have some money in the ratio 3 : 1. Ali's money is all in 50-cent coins. Ben's money is in both 10-cent coins and 50-cent coins. The ratio of the number of 10-cent coins to the number of 50-cent coins Ben has is 5 : 3.

(a) What fraction of the children's total number of coins is in 50-cent coins? Give your answer in the simplest form.

(b) If there were 30 fewer 10-cent coins than 50-cent coins in the children's total money, how much money would Ben have?

Ans: (a) _____ [3]

(b) _____ [2]

-End of Paper-
Please check your work carefully ☺

Setters: D. Lau
Luo Z. H.
Yeo M.

Answer Key

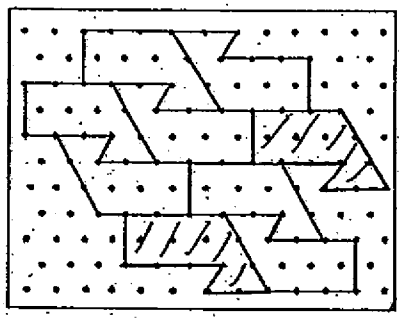
EXAM PAPER 2013
SCHOOL : RAFFLES GIRLS'
SUBJECT : PRIMARY 5 MATHEMATICS

TERM : SA2

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

16)7/8, 0.8, ¼, 0.205 **17)174.3** **18)$6\frac{1}{6}$** **19)3/14** **20)2000kg**

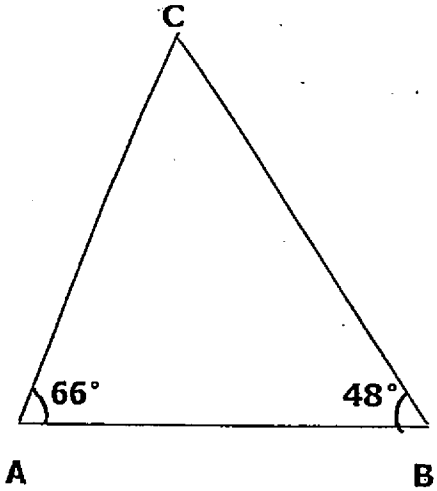
21)155° **22)90°** **23)14.36L** **24)**



25)75% **26)2.835km**

27)$3\frac{11}{15}$ **28)20cm** **29)759kg**

30)BC is 8.2cm



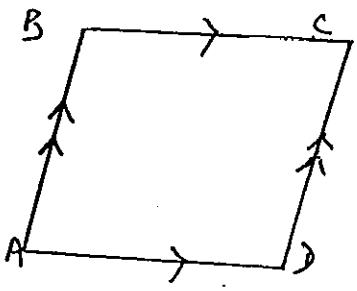
Paper 2

1)$180° - 90° - 59° = 31°$
$180° - 106° - 31° = 43°$

2)$180° - 38° - 90° = 52°$
$180° - 52° = 128°$
Ans: $52°$

3)2

4)



5)$5 + 3 = 8u$
$8u - 2u = 6u$
$96 \rightarrow 6u$
$1u \rightarrow 16$
$5u \rightarrow 80cm_2$

6)$130.40 + 18.70 = 149.10$
$3 + 3 + 1 = 7$
$149.10 \div 7 = 21.3$
$21.3 \times 3 = 63.9$
$63.9 - 18.7 = \$45.20$

7)$180° - 122° = 58°$
$180° - 58° - 48° = 74°$
$180° - (74° \times 2) = 32°$

8)$65 \times 3 = 195$
$195 - 69 = 126$
$126 \div 7 = 18$
$4 \times 18 = 72kg$

9)a)9 + 37 + 28 = 74
146 – 74 = 72
1u→72÷3 = 24
24 + 9 = 33
b)24 + 28 = 52

10)25/100 x 1120 = 280 grey
1120 – 280 = 840 white
100 – 30 = 70
70% = 840
1% = 840÷70 = 12
30% = 12 x 30 = 360
360 – 280 = 80

11)85 x 55 = 4675
4675 – 3875 = 800
55 – 30 = 25
800÷25 = 32

12)35 x 1.5 = 52.5
143.4 – 525 = 90.9
90.9÷0.75 = 121.2
121 x 0.75 = 90.75
90.9 – 90.75 = 0.15kg

13)2011 = 100%
2012 = 100 + 15 = 115%
2013 = 94/100 x 115 = 108.1%
108.1 – 100 = 8.1
8.1% = 81
1% = 81/8.1 = 10
108.1% = 108.1 x 10 = 1081

14)1640 – 1280 = 360
360 x 4 = 1440
1440 x 5 = 7200

15)a)50 x 8.55 = 427.50
559.50 – 427.50 = 132
132÷16.50 = 8
12 – 8 = 4

15)b)(12)Big box→30 + 1u x 12→12u + 360
(50)small box→1u x 50 = 50u
5/8 = 50u
1/8→10u
3/8→30u
30u – 12u = 18u
18u→360
1u→20
80u→1600

16)a)8B +6C = 28590 – 20400 = 8190
(385 x 8) +8C +6C = 8190
14C = 8190 – 3080 = 5110
1C = 5110÷14 = 365g.
b)1B = 385 + 365 = 750
20B = 20 x 750 = 15000g = 15kg
Box = 20.4 – 15 = 5.4kg

17)2u = 228÷2 = 114
1u = 114÷2 = 57
5u = 57 x 5 = 285
Height if tank A = 285cm
170 – 114 = 56
Base area = 784÷56 = 14cm^2
285 x 14 = 3990cm^3

18)a) <u>Ben</u>

10c	50c
X5	x3
50c	150c

Ben = 1u = 50 + 150 = 200
Ali = 3u = 200 x 3 = 600
600÷50 = 12
12 + 3 + 5 = 20
12 + 3 = 15
15/20 = ¾

18)b)10c : 50c
= 3 : 1
3 – 1 = 2
2u = 30
1u = 30÷2 = 15
5u = 15 x 5 = 75
3u = 15 x 3 = 45
75 x 10c = 750c
45 x 50c = 2250c
750 + 2250 = 3000c
= $30