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

Name:_____ _____( )

Form Class: P5_____ Math Teacher :_____

Date: 24 October 2019 Duration: 1 hour

Your Paper 1 Score (Out of 45 marks)	
Your Paper 2 Score (Out of 55 marks)	
Your Total Score (Out of 100 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.

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 your answer (1, 2, 3 or 4) on the OAS provided.
All diagrams are not drawn to scale. (20 marks)

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1. Which digit in 3465.129 is in the thousandths place?

   (1) 1

   (2) 5

   (3) 3

   (4) 9

2. Express 9 m 3 cm in metres.

   (1) 9.003 m

   (2) 9.03 m

   (3) 9.3 m

   (4) 903 m

3. Find the value of 70210 ÷ 70.

   (1) 1003

   (2) 1030

   (3) 1300

   (4) 10 300

4. $\frac{4}{7} \times 84 =$ _____

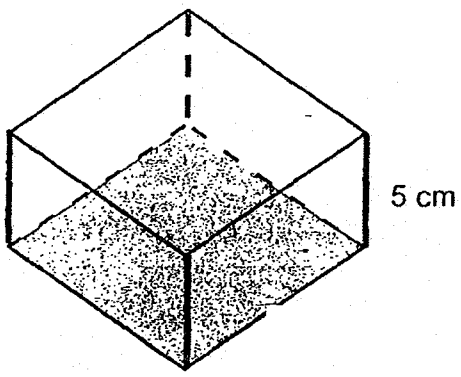
   (1) 12

   (2) 48

   (3) 3

   (4) 147

5. The figure shows a cuboid with a square base and a height of 5 cm. The perimeter of the square base is 36 cm. What is the volume of the cuboid?



(1) 180 cm^3

(2) 216 cm^3

(3) 405 cm^3

(4) 729 cm^3

. Express $\frac{7}{8}$ as a decimal.

(1) 0.7

(2) 0.78

(3) 0.825

(4) 0.875

. The average mass of 5 parcels is 120 g. The heaviest parcel is 280g. What is the average mass of the other 4 parcels?

(1) 30 g

(2) 70 g

(3) 80 g

(4) 100 g

8. There are 45 donuts in a box. 18 of them are chocolate donuts while the rest are strawberry donuts. What is the ratio of the number of strawberry donuts to the number of chocolate donuts in the box?

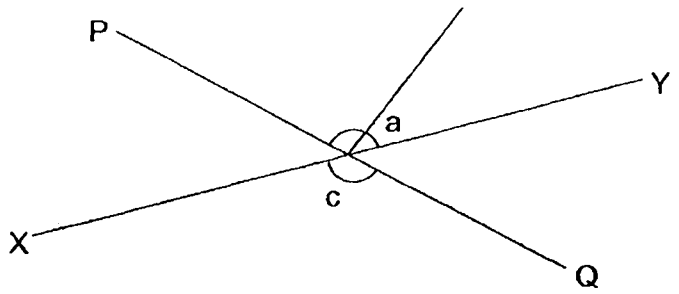
(1) 2 : 3

(2) 3 : 2

(3) 3 : 5

(4) 5 : 3

9. In the figure, PQ & XY are straight lines. ∠b is twice the size of ∠a. ∠b is 82°. Find ∠c.



(1) 41°

(2) 57°

(3) 123°

(4) 164°

10. Express 36 min as a percentage of 2 h.

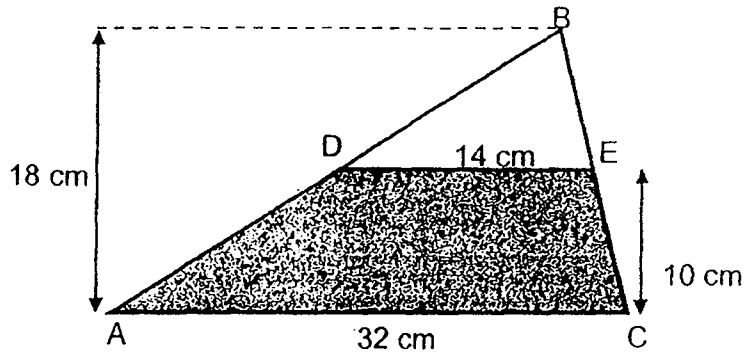
(1) 3%

(2) 18%

(3) 30%

(4) 36%

11. In the figure, ABC is a triangle. AC is parallel to DE. Find the area of the shaded part.



(1) 56 cm^2

(2) 160 cm^2

(3) 232 cm^2

(4) 288 cm^2

12. The mass of a vase is 4.009 kg. 8 vases are packed into one carton. What is the total mass of the vases in 50 cartons?

(1) 16.36 kg

(2) 163.6 kg

(3) 1603.6 kg

(4) 16036 kg

13. Mrs Yeo had $\frac{4}{5}$ kg of flour. She used $\frac{1}{3}$ of it to bake a cake and $\frac{5}{6}$ of the remaining flour to bake some muffins. How much flour did she use to bake the muffins?

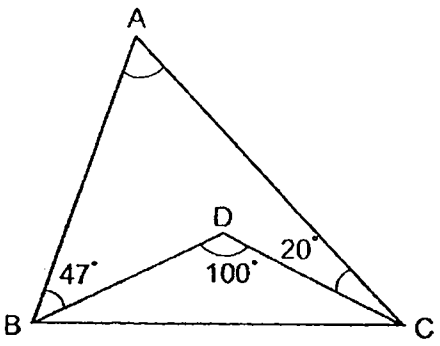
(1) $\frac{2}{9}$ kg

(2) $\frac{4}{9}$ kg

(3) $\frac{7}{18}$ kg

(4) $\frac{4}{45}$ kg

14. In the figure, ABC and BDC are triangles. Find ∠BAC.



(1) 33°

(2) 40°

(3) 147°

(4) 260°

15. Mr Tan earned $2500 in October. He saved $210 and spent 4 times as much as he saved. He gave the rest of his money to his wife. How much money did Mr Tan give to his wife?

(1) $1050

(2) $1450

(3) $1660

(4) $2286

Questions **16 to 20** carry 1 mark each. Write your answers in the spaces provided. For questions that require units, give your answers in the units stated. All diagrams are not drawn to scale. (5 marks)

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16. Express 81 g in kg.

Ans:__ _____kg

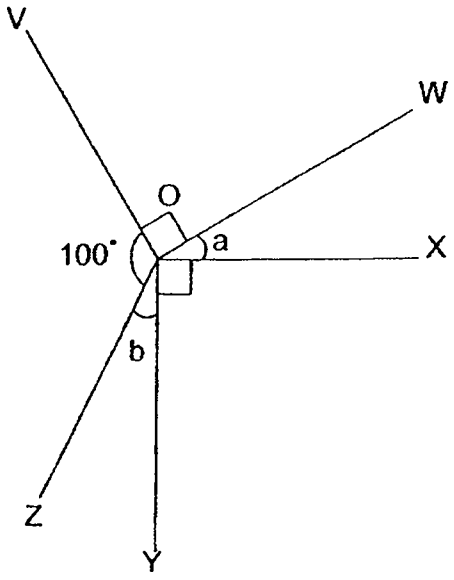
17. A metal rod of length 34 m was cut equally into 6 equal pieces. What was the length of each piece of metal rod?

Ans:__ _____ _m

18. Find the value of 18 + 60 ÷ 3 x 2.

Ans:__ _____ __

19. In the figure, ∠VOW and ∠XOY are right angles. ∠a = ∠b. Find ∠a.



Ans:__ _____°

20. Amin's mass is $\frac{131}{4}$ kg. Her sister is $\frac{19}{6}$ kg lighter than her. What is her sister's mass? Give your answer as a mixed number in its simplest form.

Ans:__ _____ __kg

Questions **21** to **30** 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 that require units, give your answers in the units stated. All diagrams are not drawn to scale. (20 marks)

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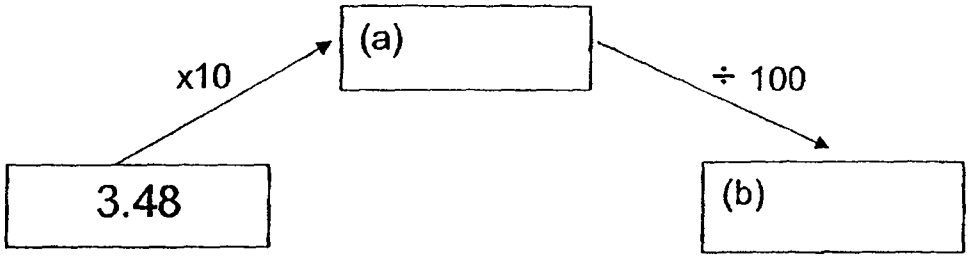
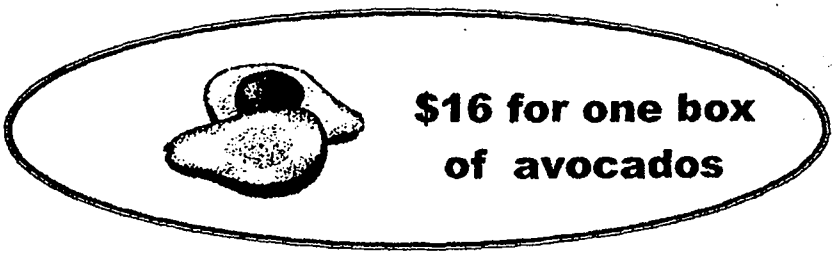
21. What are the answers in the boxes?



22.



Bailey, Ethan and Hannah bought 5 boxes of avocados altogether and shared the cost in the ratio of 5 : 1 : 4. How much did Hannah pay?

Ans: $_____

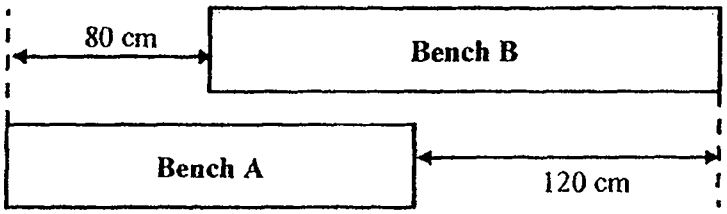
23. There were 600 books in a class library. $\frac{1}{6}$ of them were Chinese books. $\frac{1}{4}$ of them were Malay books. The rest were English books. How many English books were there?

Ans: ___ _____

24. James spent $\frac{3}{4}$ h running on a treadmill in the gym. The time he spent on carrying weights was $\frac{5}{9}$ the amount of time he spent on the treadmill. How long did James exercise in the gym? Give your answer in mixed numbers in the simplest form.

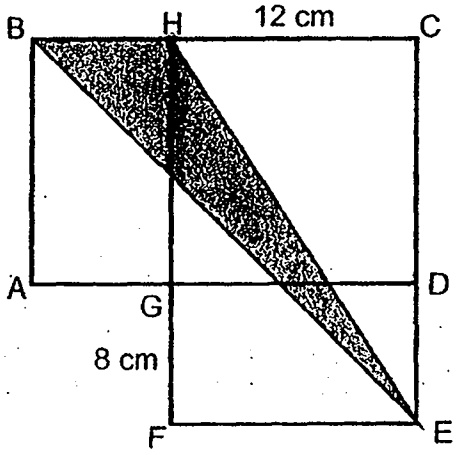
Ans: __ _____h

25. The diagram shows how Bench A and Bench B are arranged such that they are parallel to each other. The total length of the two benches is 390 cm. What is the length of Bench A?



Ans:__ _____ cm

26. In the figure, ABCD and CEFH are 2 identical rectangles. GF is 8 cm and HC is 12 cm. What is the area of the shaded figure?



Ans:__ _____ cm^2

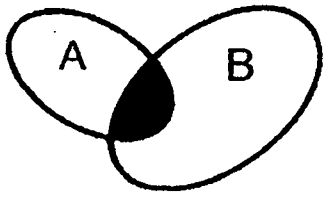
27. The table shows the rental charge for bicycles.

First 2 hours	$12
Every additional hour	$5

Gopal and his brother each rented a bicycle for the same duration. They paid a total amount of $64. How many hours did each of them rent the bicycle?

Ans:_____ h

28. Oval A overlaps Oval B as shown. The ratio of the area of Oval A to the shaded area to the area of Oval B is 5 : 2 : 9. The area of Oval B is 126 cm^2. Find the area of the whole figure.

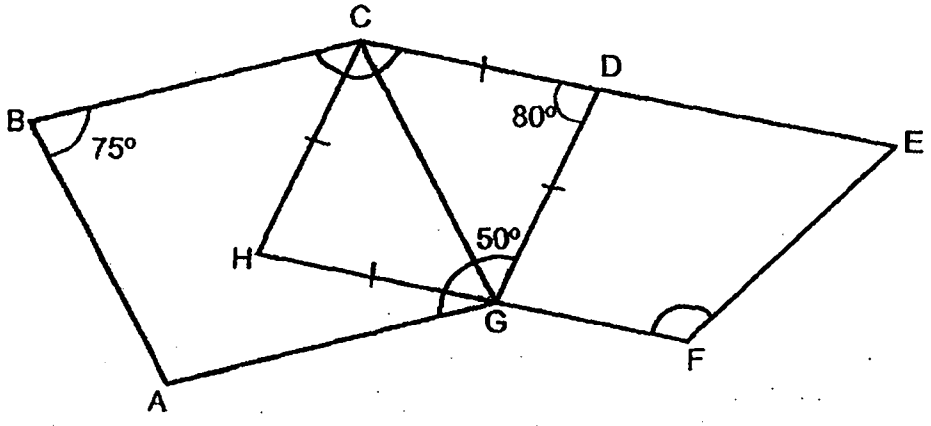


Ans:___ _____ cm^2

29. There are 450 passengers on board a flight. 200 of them are female passengers. 30% of the male passengers are boys. How many boys are on board the flight?

Ans: _____

30. In the figure, ABCG is a parallelogram, CDGH is a rhombus and DEFG is a trapezium. CE and HF are straight lines. ∠CGD is 50°.



Each of the statements below is either true, false or not possible to tell from the information given. For each statement, put a (✓) to indicate your answer.

Statements		True	False	Impossible to tell
a)	∠AGD is 175°			
b)	∠EFG is 100°			
c)	∠BCD is 155°			

End of Paper

☺ Please check your work carefully ☺

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

Name:_ _____ ( )

Form class: P5 _ _____ Math Teacher :_ _____

Date: 24 October 2019 Duration: 1 h 30 min

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

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1. Mr Lim had $82 500 in his bank account. The bank paid 3% interest at the end of each year. How much money did Mr Lim have in his bank account at the end of one year?

Ans : $_____

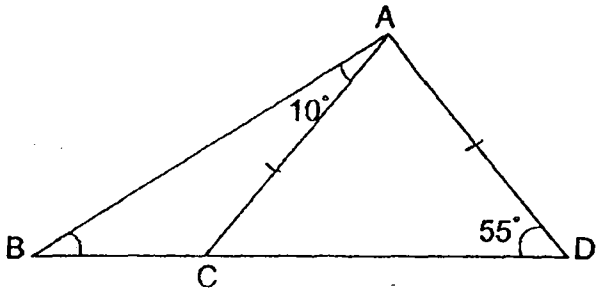
2. The table shows the parking rate at a shopping mall.

First hour	$2.80
After the first hour	$1.60 per 30 min or part thereof

Zaihan parked his car at the shopping mall from 3.45 p.m. to 6.55 p.m.
How much did he pay for parking his car?

Ans : $_____

3. In the figure, ACD is an isosceles triangle with AC = AD. $\angle ADC = 55^\circ$ and $\angle BAC = 10^\circ$. Find $\angle ABC$.



Ans :_____ °

4. Russel took part in a marathon with a total distance of $42\frac{1}{5}$ km. At the end of the second hour, he completed $\frac{4}{9}$ of the marathon. What was Russel's remaining distance for the marathon?

Ans :_____ km

5. Siti's mass was 45.8 kg. Faizal was 2.5 kg heavier than Ali. Both Faizal and Ali were heavier than Siti. The total mass of the three children was 147.5 kg. What was Faizal's mass?

Ans:_____ _____ _kg

For questions **6** to **17**, show your working clearly in the space provided for each question and write your answers in the spaces provided.
The number of marks available is shown in brackets [ ] at the end of each question or part-question. All diagrams are not drawn to scale. (45 marks)

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6. The mass of a box was 2538 g when it was $\frac{3}{4}$ filled with pebbles. The mass of the box is 750 g. $\frac{2}{3}$ of the pebbles were removed from the box. What was the mass of the remaining pebbles?

Ans :_____ [3]

7. Mr Bala paid \$7410 for 5 mobile phones and 3 laptops. 3 laptops cost as much as 8 mobile phones.

   a) What was the cost of a laptop?

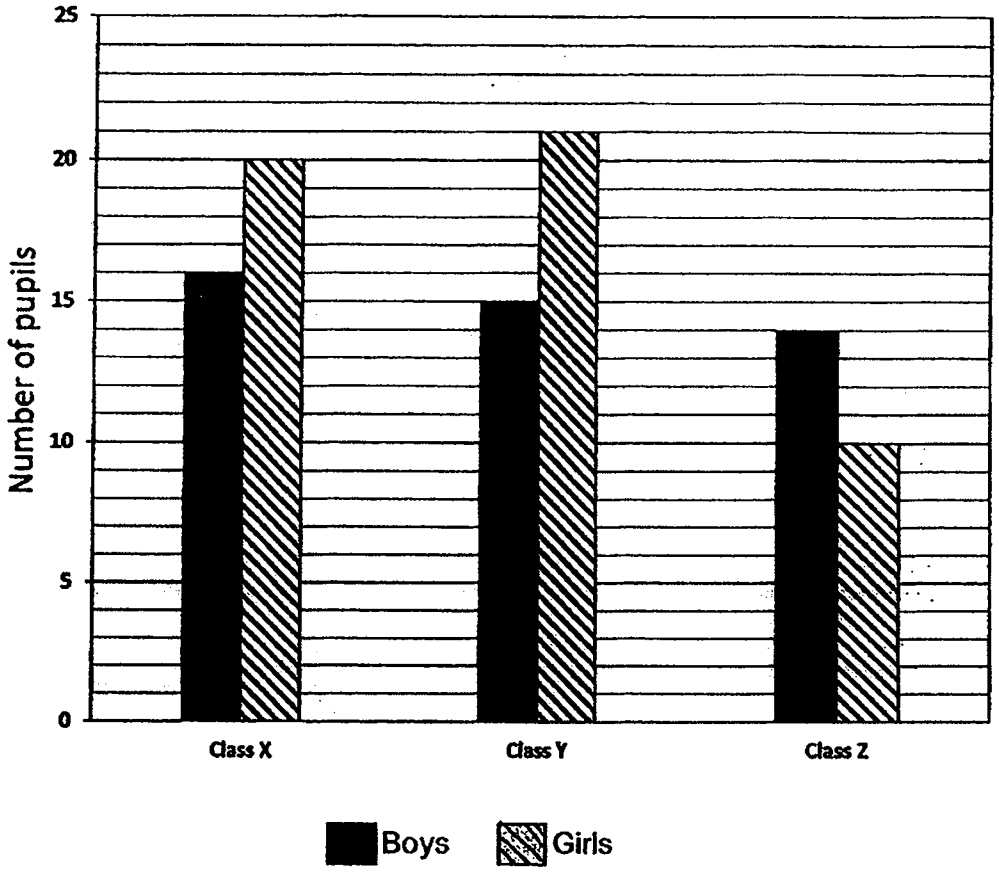
   b) Mr Bala decided to buy only laptops. What was the maximum number of laptops he could buy with the same amount of money?

Ans: (a)_____ [2]

(b)_____ [1]

8. The table shows the number of boys and girls in Class X, Y and Z.

Number of boys and girls in each class



(a) How many pupils are there in all the 3 classes?

Ans:__ _____ [1]

(b) Express the total number of boys as a percentage of the total number of girls. (Round your answer to two decimal places)

Ans:_ _____ [2]

9. A rectangular tank measuring 45 cm by 36 cm by 20 cm was $\frac{5}{8}$ filled with water. After some water was used to fill a few bottles with a capacity of 0.45ℓ each, $\frac{2}{5}$ of the water was left in the tank.

(a) How many millilitres of water was there in the tank at first?
(b) How many bottles were filled with water?

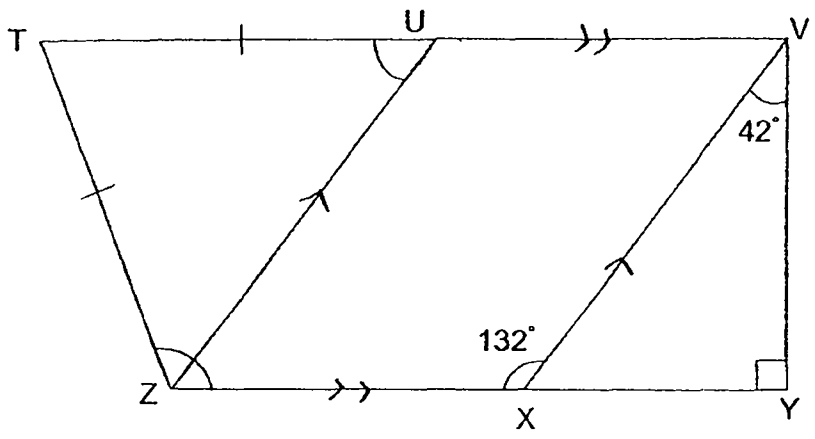
Ans: (a) _____ [1]

(b) _____ [2]

10. There were 30 questions in a Math contest. 3 marks were awarded for every correct answer. 1 mark was deducted for every wrong answer. Team RGPS scored 70 marks. How many questions did Team RGPS answer correctly?

Ans: _____ [3]

11. In the figure, UVXZ is a parallelogram. TUV and ZXY are straight lines.



Ans: (a)_____ ___[2]

(b)__ __ _____ ___ [2]

12. The average height of a group of girls was 157 cm. After four boys with a total height of 700 cm joined the group, the average height of all the children increased to 163 cm.

(a) What was the average height of the boys?

(b) How many girls were there in the group?

Ans: (a)_ _____ __[1]

(b)_ _____[3]

13. An equal number of boys and girls attended a holiday camp. $\frac{2}{5}$ of the girls and some of the boys did not stay overnight for the camp. $\frac{7}{10}$ of the children stayed overnight for the camp and 176 of them were boys.

(a) What fraction of the boys were those who stayed overnight for the camp?

(b) How many children stayed overnight for the camp?

Ans: (a)_____ [1]

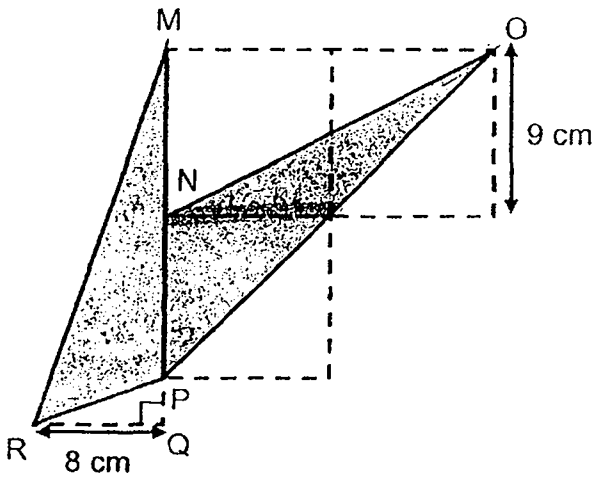
(b)_____ [3]

14. Uncle Sammy had 42 kg of coffee powder. He packed all the coffee powder into 25 big packets and 15 small packets. The mass of each big packet was 400 g more than the mass of each small packet. What was the mass of each big packet of coffee powder? (Give your answer in grams.)

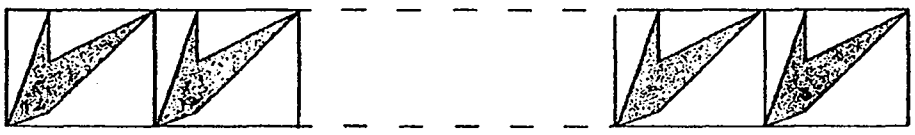
Ans:___ _____ __[4]

15. In the figure, triangle NOP was drawn within 3 identical squares of side 9 cm. RQ was 8 cm.

(a) Find the area of the shaded figure.



(b) The shaded figure was used as a design and printed on a piece of cloth. After printing, the total shaded area of the piece of cloth was 13 005 cm^2. What was the length of the piece of cloth? (Give your answer in metre.)



Ans: (a) _____ [3]

(b) _____ [2]

16. For a musical performance, three types of tickets were available for sale. $\frac{2}{5}$ of the tickets were Category A tickets. The remaining tickets were for Category B and Category C in the ratio of 7 : 5. There were 224 Category A tickets.

a) How many Category C tickets were on sale?

b) The table shows the prices of the tickets.

Type of Tickets	Price of each ticket
Category A	$90
Category B	$60
Category C	$40

All the tickets were sold out. What would be the total amount collected from the sale of all the tickets?

Ans: (a)__ _____ [3]

(b)__ _____ [2]

17. Kenny wanted to buy a sofa set. The table shows the usual price of sofa set sold in Shop A and Shop B.

	Price of sofa set
Shop A	$1650
Shop B	$1800

During a sale, there was a discount of 15% in Shop A and 20% in Shop B.

(a) Which shop would Kenny buy the sofa set from if he wants to spend less?

(b) Shop B decided to give a further discount of 50% for a second similar sofa set purchased. Mary bought 2 similar sofa sets from Shop B. How much did she pay for the second sofa set?

Ans: (a)_____ [2]

(b)_____ [2]

End of Paper

☺ Please check your work carefully ☺

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SCHOOL : RAFFLES GIRLS' PRIMARY SCHOOL
LEVEL : PRIMARY 5
SUBJECT : MATH
TERM : 2019SA2

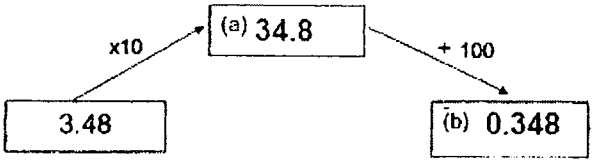
PAPER 1 BOOKLET A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	2	1	2	3	4	3	2	3	3

Q 11	Q12	Q13	Q14	Q15
3	3	2	1	2

PAPER 1 BOOKLET B

Q16)	$1g = 0.001kg$ $81g = 0.081kg$
Q17)	$5\frac{4}{6} = 5\frac{2}{3}$
Q18)	$18 + 60 \div 3 \times 2 = 18 + 20 \times 2$ $= 18 + 40$ $= 58$
Q19)	$< a \rightarrow (360° - 100° - 90° - 90°) \div 2$ $= 80° \div 2 = 40°$
Q20)	$\frac{131}{4}kg - \frac{19}{6}kg$ $= \frac{393}{12}kg - \frac{38}{12}kg$ $= \frac{355}{12}kg$ $= 29\frac{7}{12}kg$

Q21)	
Q22)	$5 \times \$16 = \$80$ B : E : H : Total 5 : 1 : 4 : 10 (× 8) 40 : 8 : 32 : 80 *Ans*: $32
Q23)	$\frac{1}{6} = \frac{2}{12}\ \frac{1}{4} = \frac{3}{12}$ $\frac{12}{12} - \frac{2}{12} = \frac{10}{12}$ $Fraction\ of\ El\ books \rightarrow \frac{10}{12} - \frac{3}{12} = \frac{7}{12}$ $No.\ of\ El\ books \rightarrow \frac{7}{12} \times 600 = 350$
Q24)	$carrying\ weights \rightarrow \frac{5}{9} \times \frac{3}{4}h = \frac{5}{12}h$ $\frac{3}{4}h + \frac{5}{12}h = \frac{9}{12}h + \frac{5}{12}h$ $= \frac{14}{12}h$ $= 1\frac{2}{12}h$ $= 1\frac{1}{6}h$
Q25)	$a + b + c \rightarrow 390cm - 120cm = 270cm$ $a + b \rightarrow 270cm - 80cm = 190cm$ $b \rightarrow 190cm \div 2 = 95cm$ $Bench\ A \rightarrow 95cm + 80cm = 175cm$
Q26)	$12cm + 8cm = 20cm$ $\frac{1}{2} \times 8cm \times 20cm = 80cm^2$
Q27)	$\$64 \div 2 = \$32$ $First\ 2h \rightarrow \$32 - \$12 = \$20$ $Additional\ hours \rightarrow \$20 \div \$5 = 4h$ $4h + 2h = 6h$
Q28)	A : Shaded : B 5 : 2 : 9 $9u = 126cm^2$ $1u \rightarrow 126cm^2 \div 9 = 14cm^2$

	$5u - 2u = 3u$ $Whole\ figure \rightarrow 3u + 9u = 12u$ $12u \rightarrow 12 \times 14cm^2 = 168cm^2$
Q29)	$male \rightarrow 450 - 200 = 250$ $boys \rightarrow \frac{30}{100} \times 250 = 75$
Q30)	a)False b)Impossible to tell c)True

PAPER 2

Q1)	$\frac{103}{100} \times \$82500 = \$84975$
Q2)	$3.45\ p.m\ to\ 6.55\ p.m \rightarrow 3h\ 10\ min$ $Next\ 2h\ 10\ min \rightarrow 5 \times \$1.60 = \$8$ $Total \rightarrow \$2.80 + \$8 = \$10.80$
Q3)	$< ACD =< ADC = 55°$ $< ACB \rightarrow 180° - 55° = 125°$ $< ABC \rightarrow 180° - 10° - 125° = 45°$
Q4)	$1 - \frac{4}{9} = \frac{5}{9}$ $\frac{5}{9} \times 42\frac{1}{5}km = 23\frac{4}{9}km$
Q5)	$Faizal + Ali \rightarrow 147.5kg - 45.8kg = 101.7kg$ $1u \rightarrow (101.7kg - 2.5kg) \div 2 = 49.6kg$ $Faizal \rightarrow 49.6kg + 2.5kg + 52.1kg$
Q6)	$Mass\ of\ pebbles \rightarrow 2538g - 750g = 1788g$ $1 - \frac{2}{3} = \frac{1}{3}$ $remaining\ pebbles \rightarrow \frac{1}{3} \times 1788g = 596g$
Q7)	$a)8M = 3L$ $5M + 3L = 5M + 8M = \$7410$ $13M = \$7410$ $1M \rightarrow \$7410 \div 13 = \$570$

	$5M \rightarrow 5 \times \$570 = \$2850$ $3L \rightarrow \$7410 - \$2850 = \$4560$ $1L \rightarrow \$4560 \div 3 = \$1520$ $b)\$7410 \div \$1520 = 4R\$1330$ $\quad Ans: 4$
Q8)	$a)16 + 20 + 15 + 21 + 14 + 10 = 96$ $b)Total\ Boys \rightarrow 16 + 15 = 14 = 45$ $Total\ Girls \rightarrow 20 + 21 + 10 = 51$ $\frac{45}{51} \times 100\% \approx 88.24\%$
Q9)	$a)\frac{5}{8} \times 45cm \times 36cm \times 20cm = 20250cm^3 = 20250ml$ $b)0.45l = 450ml$ $Water\ used \rightarrow \frac{3}{5} \times 20250ml = 12150ml$ $No.\ of\ bottles \rightarrow 12150ml \div 450ml = 27$
Q10)	$Total\ marks\ if\ all\ were\ correct \rightarrow 30 \times 3 = 90$ $marks\ lost \rightarrow 90 - 70 = 20$ $marks\ lost\ for\ every\ wrong\ ans \rightarrow 3 + 1 = 4$ $no.\ of\ wrong\ ans \rightarrow 20 \div 4 = 5$ $answered\ correctly \rightarrow 30 - 5 = 25$
Q11)	$a) < TUZ \rightarrow 180° - 132° = 48°$ $b) < TZU =< TUZ = 48°$ $< UZX \rightarrow 180° - 132° = 48°$ $< TZX \rightarrow 48° + 48° = 96°$
Q12)	$a)700cm \div 4 = 175cm$ $b)175cm - 163cm = 12cm$ $163cm - 157cm = 6cm$ $12cm \times 4 = 48cm$ $no.\ of\ girls \rightarrow 48cm \div 6cm = 8$
Q13)	$a)Fraction\ of\ the\ boys\ who\ stayed \rightarrow \frac{4}{5}$ $b)4u = 176$ $1u - 176 \div 4 = 44$ $Total\ children\ who\ stayed \rightarrow 7u$ $= 7 \times 44 = 308$
Q14)	$42kg = 42000g$ $25B + 15S = 25u + 15u + (25 \times 400g)$

	$= 40u + 10000g$ $= 42000g$ $40u \rightarrow 42000g - 10000g = 32000g$ $1u \rightarrow 32000g \div 40 = 800g$ $1B \rightarrow 1u + 400g$ $= 800g + 400g$ $= 1200g$
Q15)	$a) \frac{1}{2} \times 9cm \times 9cm = 40.5cm^2$ $\Delta ONP \rightarrow 40.5cm^2 + 40.5cm^2 = 81cm^2$ $\Delta MRP \rightarrow \frac{1}{2} \times 8cm \times 18cm = 72cm^2$ $Shaded\ area \rightarrow 72cm^2 + 81cm^2 = 153cm^2$ $b) 13005cm^2 \div 153cm^2 = 85$ $8cm + 9cm + 9cm = 26cm$ $Length\ of\ cloth \rightarrow 85 \times 26cm = 2210m = 22.1m$
Q16)	$a) \frac{3}{5}$ *of the tickets* $\rightarrow 7u + 5u = 12u$ $\frac{2}{5}$ *of the tickets* $\rightarrow \frac{2}{3} \times 12u = 8u$ *Ans*: 140 $A : B : C$ $8 : 7 : 5\ (\times 28)$ $224 : 196 : 140$ $b)\ (224 \times \$90) + (196 \times \$60) + (140 \times \$40)$ $= \$37520$
Q17)	$a) Shop\ A \rightarrow \frac{85}{100} \times \$1650 = \$1402.50$ $Shop\ B \rightarrow \frac{80}{100} \times \$1800 = \$1440$ *Ans* : *Shop A* $b) 1st\ sofa \rightarrow \$1440$ $2nd\ sofa \rightarrow \frac{50}{100} \times \$1440 = \$720$