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

Name: _____ ( )

Form Class: P5 _____ Math Teacher : _____

Date: 26 Oct 2017 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.

1. Find the value of $40 \div 100 \times 10 =$ _____.

   (1) 0.004

   (2) 0.04

   (3) 0.4

   (4) 4

2. The value of the digit 7 in 4.072 is _____.

   (1) 7

   (2) 0.7

   (3) 0.07

   (4) 0.007

3. Round 123.595 to the nearest hundredth.

   (1) 100.00

   (2) 100.60

   (3) 123.59

   (4) 123.60

4. Express $4\frac{3}{25}$ as a decimal.

(1) 4.03

(2) 4.12

(3) 4.103

(4) 4.012

5. Find the value of $8 \times 2\frac{1}{4}$.

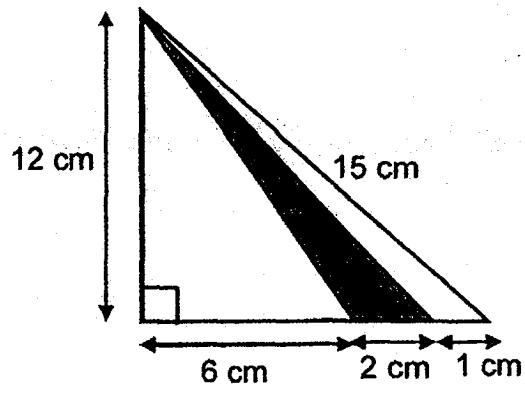
(1) $4\frac{1}{4}$

(2) $16\frac{1}{4}$

(3) 18

(4) 72

6. In the figure, find the total area of the unshaded parts.



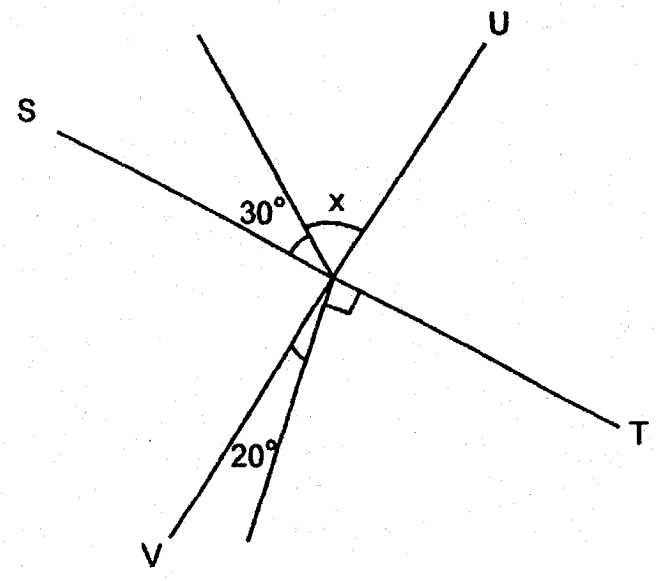
(1) 12 cm^2

(2) 36 cm^2

(3) 42 cm^2

(4) 84 cm^2

7. In the figure, ST and UV are straight lines. Find $\angle x$.



(1) 40°

(2) 60°

(3) 80°

(4) 110°

8. Alice bought 27 boxes. Each box contained 24 pens. How many pens did she buy altogether?

(1) 162

(2) 548

(3) 628

(4) 648

9. $\frac{1}{8}$ of Ali's money is equal to $\frac{5}{48}$ of Shawn's money. What is the ratio of Ali's money to Shawn's money?

(1) 5 : 6

(2) 6 : 5

(3) 1 : 5

(4) 1 : 6

10. What percentage of 2 kg is 5 g?

(1) 0.25%

(2) 0.4%

(3) 25%

(4) 40%

11. Find the value of 3 ÷ 7. Round your answer to 2 decimal places.

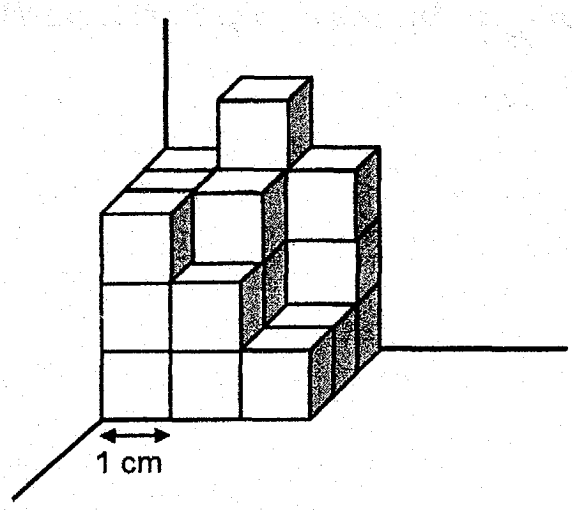
(1) 0.42

(2) 0.43

(3) 2.33

(4) 2.34

12. The figure is made up of identical cubes. Find its volume.



(1) 22 cm^3

(2) 23 cm^3

(3) 27 cm^3

(4) 28 cm^3

13. The average of 3 numbers is 560. The first and second numbers are 124 and 230 respectively. What is the third number?

(1) 206

(2) 1326

(3) 1329

(4) 1680

14. Ahmad had 500g of flour. He used $\frac{3}{8}$ of the flour to bake some cookies. How much flour did he have left?

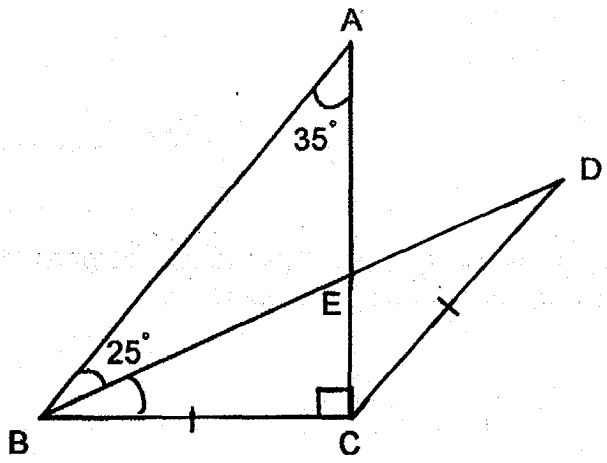
(1) $\frac{5}{16}$ kg

(2) $\frac{3}{16}$ kg

(3) $\frac{1}{8}$ kg

(4) $\frac{7}{8}$ kg

15. In the figure, ABC is a right-angled triangle and BCD is an isosceles triangle. Find $\angle AED$.



(1) 30°

(2) 35°

(3) 60°

(4) 65°

Questions **16** to **20** 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.

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16. Find the value of $240 \div 4 \times 2 + 51 =$ _____

Ans: _____

17. Convert 10 307m to km.

Ans: _____ km

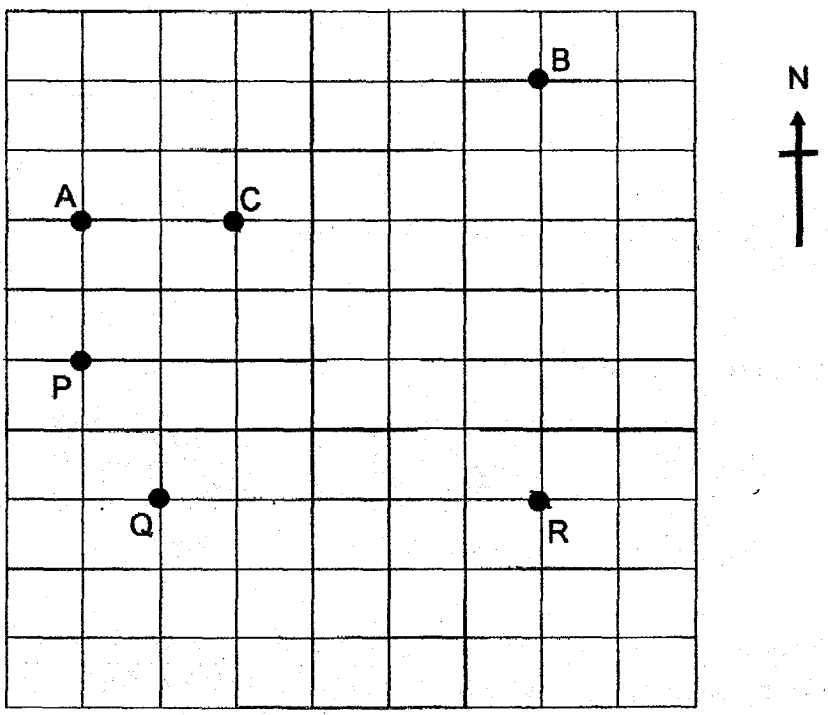
18. 12 children shared 3 pizzas equally among themselves. How much pizza did each child get? Give your answer in the simplest form.

Ans: _____

19. Find the value of $7\frac{1}{8} - 3\frac{3}{4}$.

Ans: _____

20.



Based on the square grid, point C is north-west of point _____.

Ans: _____

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 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.

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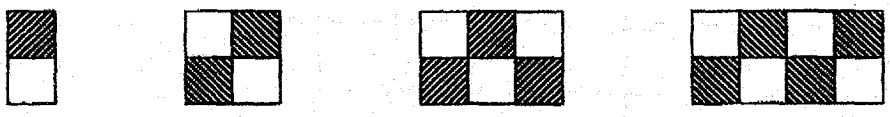
21. Arrange the following numbers from the smallest to the greatest.

$\frac{3}{8}$, 0.3, 0.37

Ans: _____, _____, _____
smallest

22. Study the pattern carefully.



Pattern 1 Pattern 2 Pattern 3 Pattern 4

What is the ratio of the number of shaded squares to the total number of squares in Pattern 45? Express your answer in its simplest form.

Ans: _____

23. Mrs Lee had 15 kg of sugar. She packed the sugar into small packets of 200 g each. How many small packets of sugar did Mrs Lee have?

Ans: _____

24. A box with 26 marbles has a mass of 1.8 kg. The same box with 24 marbles has a mass of 1.38 kg. Find the mass of 1 marble.

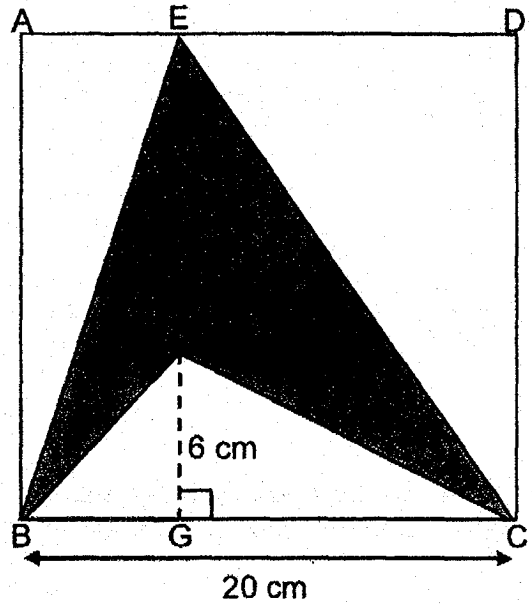
Ans: _____ g

25. Wenhui has 4 ℓ of milk. He used $\frac{3}{5}$ ℓ of the milk to make ice-cream.

How much milk had he left?

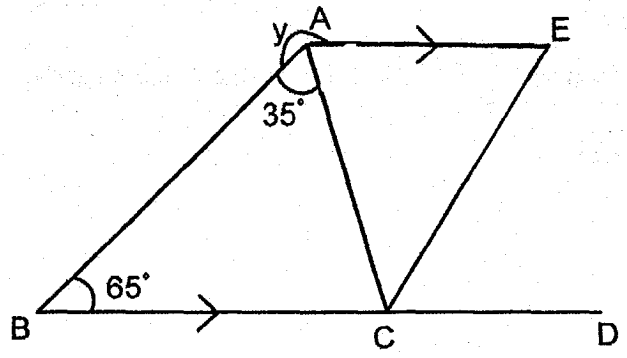
Ans: _____ ℓ

26. ABCD is a square. BC is 20 cm and FG is 6 cm.
Find the shaded area.



Ans: _____ cm^2

27. In the figure, AB, AC and AE are straight lines and AE is parallel to BD.
$\angle ABC = 65^\circ$ and $\angle BAC = 35^\circ$. Find $\angle y$.



Ans: _____ °

28. Amanda had 180 cards and Ben had 420 cards at first.
After selling an equal number of cards, the number of cards Amanda had left to the number of cards Ben had left was 1 : 3.
How many cards did each of them sell?

Ans: _____

29. The table below shows the number of siblings a group of children has.

Number of Siblings	Number of children
0	17
1	15
2	7
3	1

What is the percentage of children who have at least one sibling?

Ans: _____%

30. The table shows the parking fee for cars in Hello Shopping Mall.

7 a.m. to 5 p.m.	$1.50 per hour or part thereof
5 p.m. to 7 a.m.	$2 per hour or part thereof

Based on the information above, put a tick (✓) in the correct box.

	True	False	Impossible to tell
a) It is cheaper to park the car before 5 p.m. for 7 hours 10 min than to park the car for 7 hours after 5 p.m.			
b) Mr Lim parked his car from 4.30 p.m. to 7 p.m. He paid $6.50 for his parking fees.			

End of Paper
☺ Please check your work carefully ☺

Setters: Lee SK
Ho KH
Yan YL

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

Name: _____ ( )

Form class: P5 _____ Math Teacher : _____

Date: 26 Oct 2017 Duration: 1 h 30 min

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
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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.
Answers in fractions or ratio must be expressed in the simplest form. (10 marks)

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1. The height of Alan, Ben and Cedric is 1.68 m, 1.77 m and 1.83 m respectively. Find their average height.

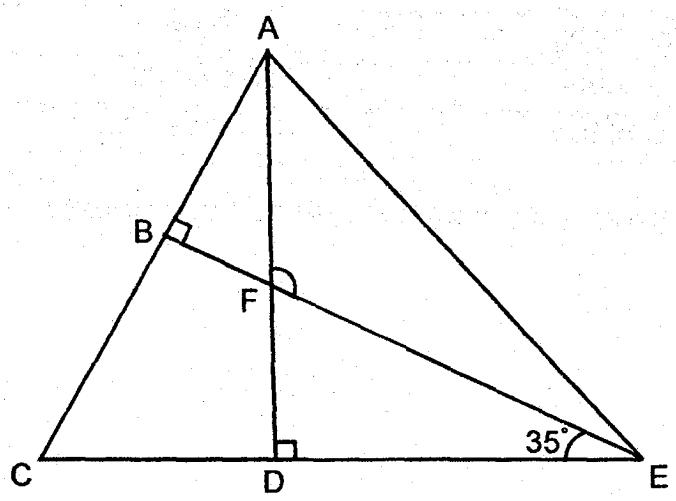
Ans : _____ m [2]

2. The mass of 1 packet of flour is $2\frac{1}{4}$ kg. A bakery bought 25 packets of flour.

How much flour did the bakery buy? Give your answer as a fraction in the simplest form.

Ans : _____ kg [2]

3. In the figure, ACE is a triangle. $\angle FED = 35^\circ$. Find $\angle AFE$.



Ans : _____° [2]

4. Dave put \$50 000 in a bank account. After a year, he had \$50 550 in his account. What was the percentage interest paid by the bank at the end of the year?

Ans : _____% [2]

5. The table below shows the rate at which a waiter is being paid daily at a cafe.

Working hours	Rate
First 8 hours	$9 per hour
Subsequent hours	$12.50 per hour

If the waiter works 10 hours a day, how much will he earn in a day?

Ans: $_____ [2]

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 the brackets [ ] at the end of each question or part-question.
Figures are not drawn to scale.
Answers in fractions or ratio must be expressed in the simplest form. (45 marks)

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6. Siti bought 6 files and 10 pens. 3 files and 4 pens cost $17.50. The cost of 1 file was twice the cost of 1 pen. How much did Siti pay?

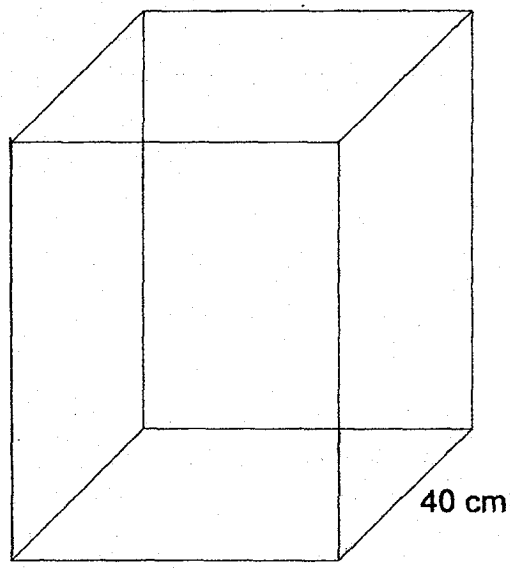
Ans: _____ [3]

7. Joyce poured some water into the empty container A without spilling such that it is $\frac{1}{4}$ full. Later she added 36 000cm^3 of water to the container and it became $\frac{7}{12}$ full.

(a) Find the volume of container A in litres.

(b) Find the volume of water in container A at the end. Give your answer in litres.

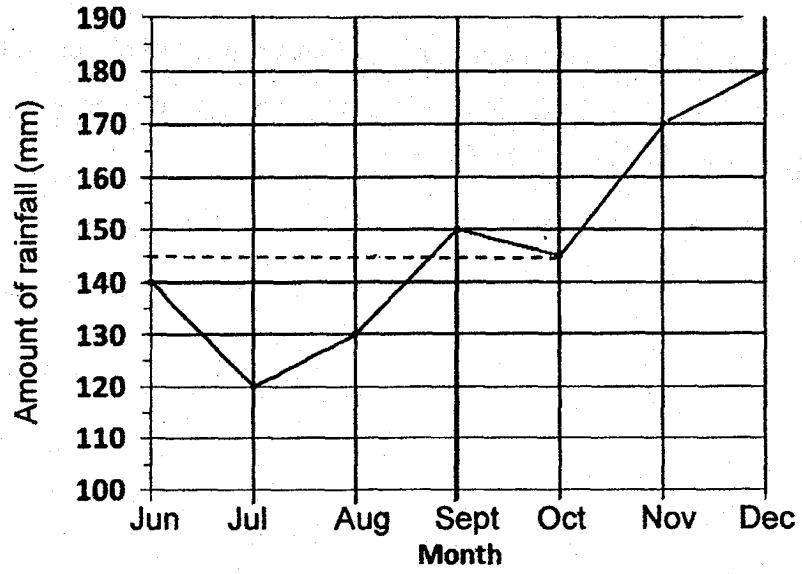
Container A



Ans : (a) _____ [3]

(b) _____ [1]

8. The line graph below shows the amount of rainfall recorded in Singapore from June to December in a certain year.



(a) What was the difference in the amount of rainfall recorded between the driest and wettest months from June to December?

(b) Between which two months was the increase in the amount of rainfall the greatest?

(c) What was the total amount of rainfall recorded from Jun to Aug?

Ans : a) _____ [1]

b) _____ [1]

c) _____ [1]

9. Mrs Lee baked some chocolate and banana muffins. She gave away $\frac{3}{5}$ of the chocolate muffins and $\frac{3}{7}$ of the banana muffins. The number of chocolate muffins left was the same as the number of banana muffins left. Mrs Lee had 352 muffins left. How many banana muffins did she bake?

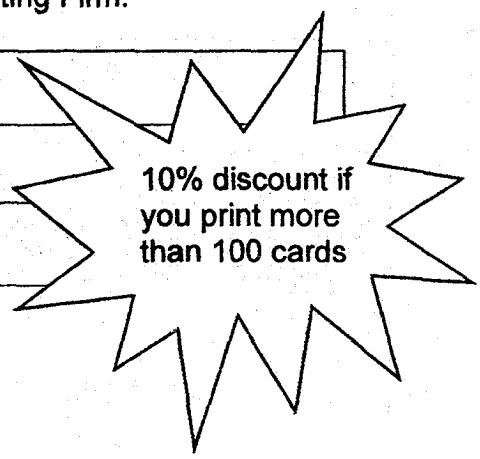
Ans: _____ [3]

10. Mrs Tan bought some goldfish and angelfish. She paid $1134 for 60 fishes. Each goldfish cost $28 and each angelfish cost $7. How many goldfish did Mrs Tan buy?

Ans: _____ [3]

11. The table shows the cost of printing cards for AAA Printing Firm.

Number of cards	**Cost**
First 50 cards	$1.15 per card
Subsequent cards	$0.90 per card



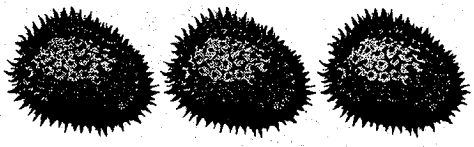
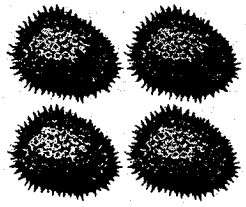
(a) Mary printed 50 cards. How much did she pay?

(b) John printed 300 cards. How much did he pay?

Ans: a) _____ [1]

b) _____ [3]

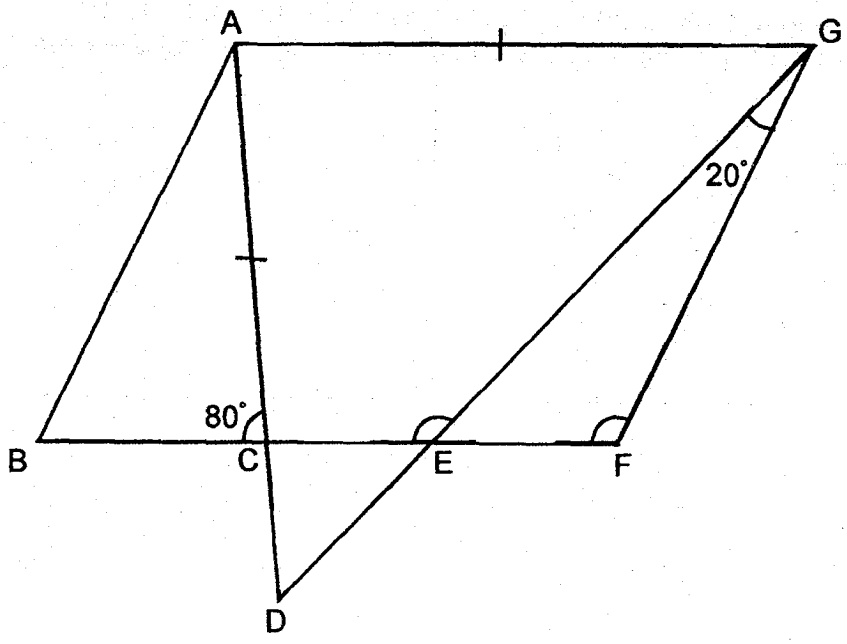
12.

Big Durian	Small Durian
	
3 for $45	4 for $25

Jane bought an equal number of big durians and small durians for a party. She spent $315 more on big durians. How many durians did she buy altogether?

Ans : _____ [3]

13. In the figure below, ABFG is a parallelogram and ADG is an isosceles triangle. $\angle ACB = 80^\circ$ and $\angle DGF = 20^\circ$.



(a) Find $\angle EFG$.

(b) Find $\angle CEG$.

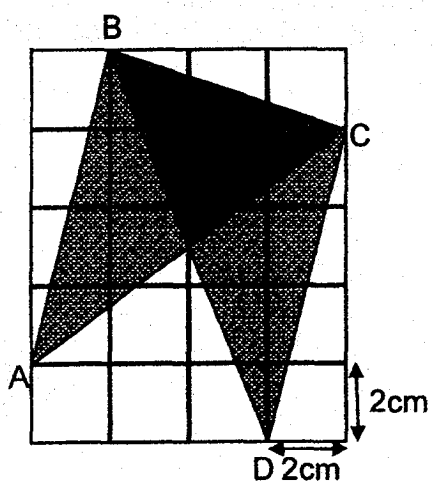
Ans: a)_____ [3]

b)_____ [1]

14. The average height of a group of girls was 155 cm.
When 15 boys joined the group, the average height became 158 cm.
Given that the average height of the 15 boys was 165 cm, find the number of girls in the group.

Ans: _____ [4]

15. ABC and BCD are identical triangles. The overlapping area is 19cm². Find the area of the shaded figure.



Ans: _____ [4]

16. There were 50 more men than women at a concert on Day 1. On Day 2, the number of women decreased by 20% while the number of men remained the same. Each concert ticket cost $108. There were 950 audience on Day 2. How much money was collected from the sales of the concert tickets on both days?

Ans : _____ [5]

17. Mrs Lim had some bags in her shop. $\frac{1}{4}$ of them were Brand A, $\frac{1}{2}$ of the remaining were Brand B and the rest were Brand C.

The table below shows the amount she earned per bag.

Types of bags	Amount earned per bag
Brand A	$240
Brand B	$180
Brand C	$130

She sold 50% of the bags and earned $14100. The ratio of the number of Brand A bags sold to the number of Brand B bags sold to the number of Brand C bags sold was 3 : 4 : 7. How many Brand B bags did she have at first?

Ans: _____ [5]

End of Paper
Please check your work carefully ☺

Setters: Ho KH
Lee SK
Yan YL

EXAM PAPER 2017 (P5)

SCHOOL : RAFFLES GIRLS'

SUBJECT : MATHEMATICS

TERM : SA2

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

16)171 17)10.307 km 18) ¼ of the pizza 19)3 3/8 20)R

21)0.3 , 0.37 , 3/8 22)1:2 23)75 small packets 24)210 g

25)3.4L 26)140cm2 27)245° 28)60 cards 29)57.5%

30)a)True b)False

Paper 2

1)Total height = 1.69 + 1.77 + 1.83 = 5.28

Average height = 5.28 ÷ 3 = 1.76 m

2)25 x 2¼ = 56¼ kg

3) $\angle DFE = 180° - 90° - 35° = 55°$

$\angle AFE = 180° - 55° = 125°$

4)$50550 – $50000 = $550

$550/$50000 x 100% = 1.1%

5)First 8h = 8 x $9 = $72

Remaining 2h = 2 x $12.50 = $25

Paid = $25 + $72 = $97

6)6u + 4u = 17.50

Cost 1 pen – 1u = 17.50 ÷10 = 1.75

Cost of 10 pens, 10u = 10 x 1.75 = 17.50

Cost of 1 file, 2u = 2 x 1.75 = 3.50

Cost of 6 files = 6 x 3.50 = 21

Total Siti paid = 21 + 17.50 = $38.50

7)a) ¼ = 3/12

7/12 – 3/12 = 4/12

4/12 →36000

12/12 →36000 x 3 = 108000

108000cm3 = 108L

b)Vol. of container A in the end = 36000÷4 x 7 = 63000

63000ml = 63ml

8)a)Difference = 180 – 120 = 60mm

b)October to November

c)total rainfall from Jun to Aug = 140 + 120 + 130 = 390mm

9)2/5 C = 4/7 B

4/10 C = 4/7 B

4u + 4u = 352

1u = 352 ÷ 8 = 44

Banana muffins baked, 7u = 7 x 44 = 308 banana muffins

10)T→60 x 7 = 420

E→1134 – 420 = 714

D→28 – 7 = 21

O→714 ÷ 21 = 34 gold fish

11)a)First 50 cards = 50 x $1.15 = $57.50

b)First 50 = $57.50

Remaining 250 cards = 250 x $0.90 = $225

Total paid = $225 + $57.50 = $282.50

90/100 x 282.50 = $254.25

12)3B→$4 (x4)

12B→$45 x 4 = $180

4s→$25 (x3)

12s→$25 x 3 = $75

$180 – $75 = $105

$315 ÷ $105 = 3

12B x 3 = 36 B

12S x 3 = 36 S

$105 x 3 = $315

Total durian = 36 + 36 = 72 durian

13)a) $\angle ADG / \angle AGD = (180^\circ - 80^\circ) \div 2 = 50^\circ$

$\angle EFG = 180^\circ - 50^\circ - 70^\circ = 110^\circ$

b) $\angle CEG = 180^\circ - 50^\circ = 130^\circ$

14)Decrease = 165 – 158 = 7

Total decrease = 15 x 7 = 105

Increase = 158 – 155 = 3

Girls = 105 ÷ 3 = 35 girls

15)½ x 6 x 2 = 6

½ x 8 x 2 = 8

½ x 8 x 6 = 24

8 x 8 = 64

64 – 6 – 8 – 24 = 26

26 x 2 = 52

52 – 19 = 33cm2

16)180% →950 – 50 = 900

2% →900 ÷ 90 = 10

Total audience for both days [(50x10) + 50] + (50x10) + [(50x10)+50] + (40x10) = 2000

Collect = 2000 x $108 = $216000

17)3 x 240 + 4 x 180 + 7 x 130 = 2350

14100 ÷ 2350 = 6

½ →6 x 14 = 84

84 x 2 = 168

3/8 x 168 = 63