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

Name: _____ (   )

Form Class: P5_____   Math Teacher : _____

Date: 24 October 2018   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)

1.   Find the value of 120 600 ÷ 60.

(1)   201

(2)   210

(3)   2010

(4)   2100

2.   Which digit in 185·423 is in the hundredths place?

(1)   1

(2)   2

(3)   3

(4)   4

3.   Express 9020 ml in litres.

(1)   9.02 ℓ

(2)   9.2 ℓ

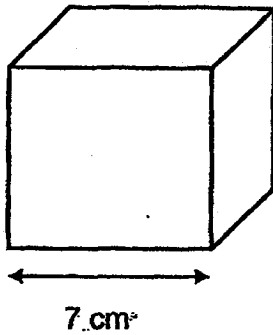(3)   90.02 ℓ

(4)   90.2 ℓ

4.   Express $\frac{3}{8}$ as a decimal.

(1)   0.3

(2)   0.38

(3)   0.375
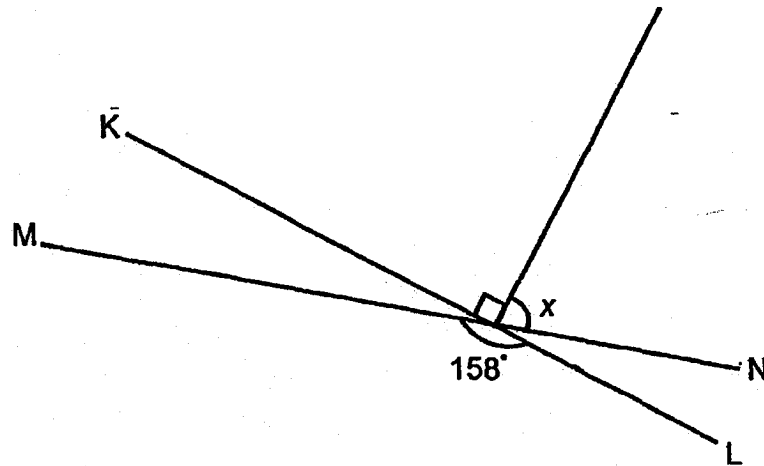
(4)   0.667

5. Find the value of $14 \times \frac{18}{7}$

    (1)   9

    (2)   18

    (3)   36

    (4)   126

6. What is the volume of the cube?

7 cm

    (1)   21 cm^3

    (2)   49 cm^3

    (3)   294 cm^3

    (4)   343 cm^3

7. In the figure, KL and MN are straight lines. Find ∠ x.

(1) 22°

(2) 68°

(3) 112°

(4) 158°

8. The average of 3 numbers is 27. What is the sum of all the numbers?

(1) 3
(2) 9
(3) 30
(4) 81

9. Peter, Bala and Zoe shared 126 marbles in the ratio of 2 : 3 : 4. How many marbles did Bala get?
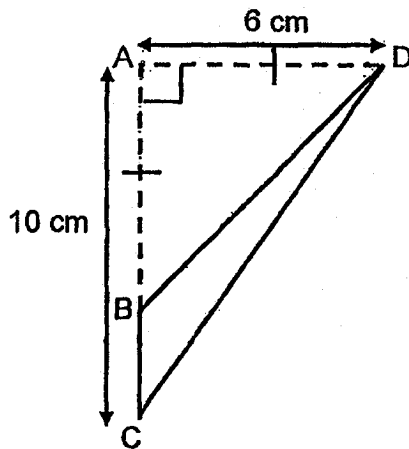
(1) 14
(2) 28
(3) 42
(4) 56

10. Express 48 cm as a percentage of 1.2 m.

    (1) 40%

    (2) 25%

    (3) 2.5%

    (4) 4%

11. Mrs Tan bought 70 kg of rice at $2.85 per kg. How much did she pay?

    (1) $19.65

    (2) $19.95

    (3) $196.50

    (4) $199.50

12. In the figure, AD = AB. Find the area of triangle BCD.
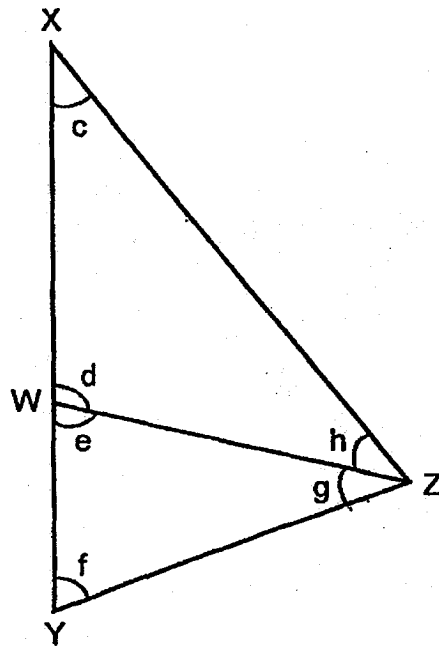

    (1)   12 cm²

    (2)   24 cm²

    (3)   30 cm²

    (4)   60 cm²

13. Amy has 3 times as much money as Charles. John has 2 times as much money as Amy. John has $85 more than Charles. What is the total amount of money Charles and Amy have?

(1) $17

(2) $68

(3) $153

(4) $170

14. In the figure, XYZ is a triangle. Which one of the following is **not** true?

(1) $\angle d + \angle e = 180°$

(2) $\angle c + \angle f + \angle h = 180°$

(3) $\angle c + \angle d + \angle h = 180°$

(4) $\angle c + \angle f + \angle g + \angle h = 180°$

15. Hui Hui participated in a race. The total distance she had to swim, cycle and run was $3\frac{1}{4}$ km. She cycled $1\frac{1}{4}$ km and ran $\frac{2}{3}$ of the remaining distance. What was the distance she ran?

(1) $\frac{1}{3}$ km

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

(3) $1\frac{1}{3}$ km

(4) $2\frac{1}{6}$ km

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. (5 marks)

16. Find the value of $98 - 5 \times 2 + 6$.

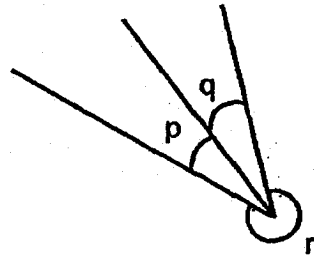Ans: _____

17. Express 7.9 kg in grams.

Ans: _____ g

18. 6 children shared 4 pies equally among themselves. What fraction of a pie did each child get? Give your answer in the simplest form.

Ans: _____

19. Find the value of $\frac{3}{4} + \frac{4}{7}$.
Give your answer as a mixed number in the simplest form.

Ans: _____

20. In the figure, $\angle p = \angle q = 38°$. Find $\angle r$.

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 spaces provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale.   (20 marks)

___

21. 2000 people donated $5.80 each to Children's Charity. The total sum of money was shared equally by 80 children to buy books. How much did each child receive?

Ans: $_____

22. The ratio of the length of Rectangle A to its breadth is 9 : 6. The perimeter of the rectangle is 270 cm. What is the difference between the length and the breadth of the rectangle?
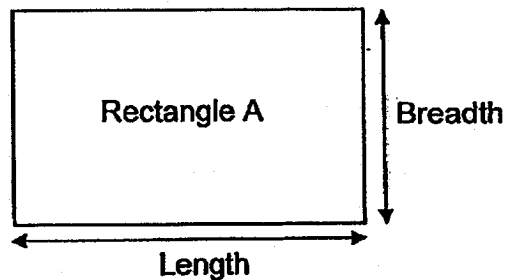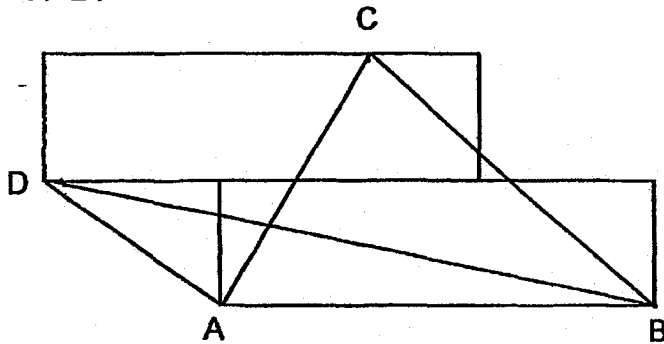

Ans: _____ cm

23. There were 255 apples in Box A and Box B altogether. After 38 apples were transferred from Box B to Box A; there were twice as many apples in Box B as Box A. How many apples were there in Box B at first?

Ans: _____

24. A rectangular plot of land measures 8 m long by $\frac{2}{5}$ m wide. An area of $\frac{9}{10}$ m^2 within the plot of land is used for plantation. Find the area of the plot of land that is not used for plantation. Express the answer in mixed number.
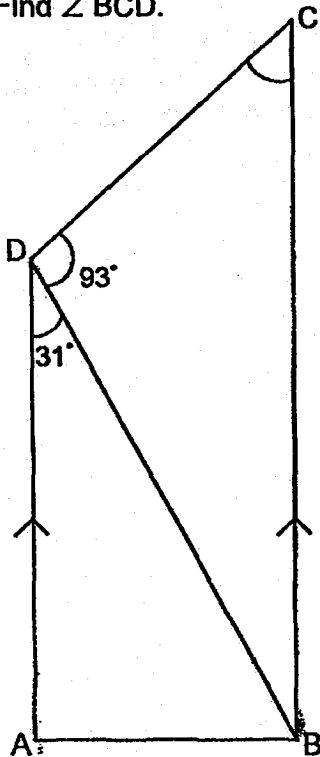
Ans: _____ m^2

25. The figure is made up of triangle ABC, triangle ABD and 2 identical rectangles. The area of triangle ABC is 36 cm². What is the area of triangle ABD?

Ans: _____ cm²

26. In the figure, ABCD is a trapezium. $\angle ADB = 31°$ and $\angle BDC = 93°$. Find $\angle BCD$.

Ans: _____

27. There were 400 books in a library. 40% of them were borrowed. After that, 68 books were returned. How many books were there in the library in the end?

Ans: _____

28. Mrs Maju needs 8 litres of petrol to drive a distance of 120 km. A litre of petrol costs $2.08. How much will Mrs Maju need to pay for petrol to drive 300 km?

Ans: $ _____

29. Shanti and Rachel shared a sum of $120. Shanti had $48 more than Rachel. What was the ratio of the amount of money Rachel had to the amount of money Shanti had? Give your answer in the simplest form.

Ans: _____

30. Meili had blue, green and yellow marbles in a box. $\frac{3}{7}$ of the marbles were blue. $\frac{4}{14}$ of the marbles were yellow and the rest of the marbles were green. She gave away some of the blue marbles and there were more remaining blue marbles than those that were given away.

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

	True	False	Impossible to tell
a) There were more yellow marbles than green marbles.			
b) There was an equal number of remaining blue marbles and green marbles.			

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 2018   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)

1.   A fruit seller had $72\frac{1}{2}$ kg of durians. He sold $\frac{2}{3}$ of them on Saturday. How many kilograms of durians did he have left? Express the answer in mixed number.

Ans : _____kg [2]

2.   Jeff has an equal number of thirty-cent and fifty-cent stamps. The total value of the stamps is $33.60. How many fifty-cent stamps does he have?

Ans : _____ [2]

3. In the square grid, CD and DE form two sides of a parallelogram CDEF.

a) Measure and write down the size of ∠ CDE.

b) Complete the drawing of parallelogram CDEF.

[1]
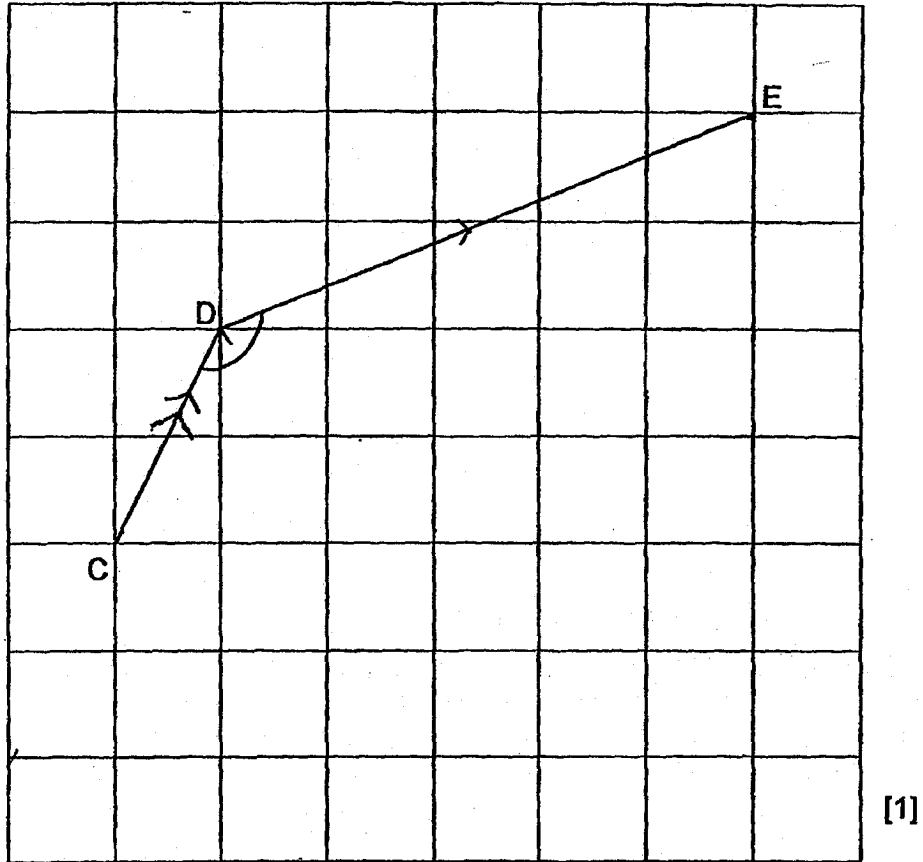
Ans : a) _____ ° [1]

4.   Mrs Pan bought an oven and she paid $599.20 which included a GST of 7%.
      What was the cost of the oven before the GST?

Ans : $_____ [2]

5.   The airmail rates to New Zealand is shown in the table.

Mass Step Not Over	Cost
30 g	$1.65
Per additional 5 g or part thereof	$0.20

Wendy sent a letter of 37 g to New Zealand. How much did she pay?

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 brackets [   ] at the end of each question or part-question. All diagrams are not drawn to scale.   (45 marks)

6. 426 stickers are shared among Annie, Bala and Siti. Siti gets 20 stickers more than Bala. Annie gets 35 stickers less than Bala. How many stickers does Annie receive?

Ans : _____ [3]

7. Kelly spent $\frac{1}{5}$ of her money on 7 notebooks and 4 pens. The cost of each notebook is 2 times the cost of each pen. She bought some more pens with $\frac{3}{10}$ of her money. How many pens did she buy altogether?

Ans: _____ [3]

8. A rectangular tank measuring 23 cm long, 18 cm wide and 11 cm high contains 0.828 ℓ of water. How much more water has to be added so that the height of water is 2 cm from the top of the tank? Express your answer in litres.
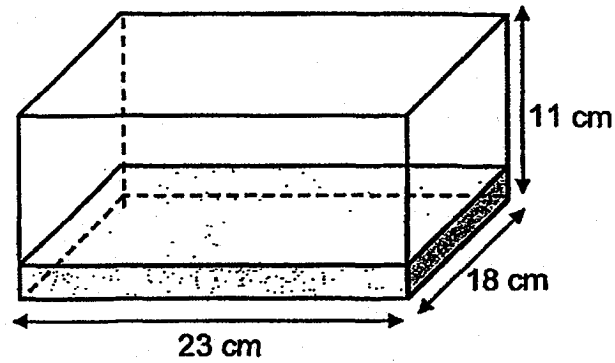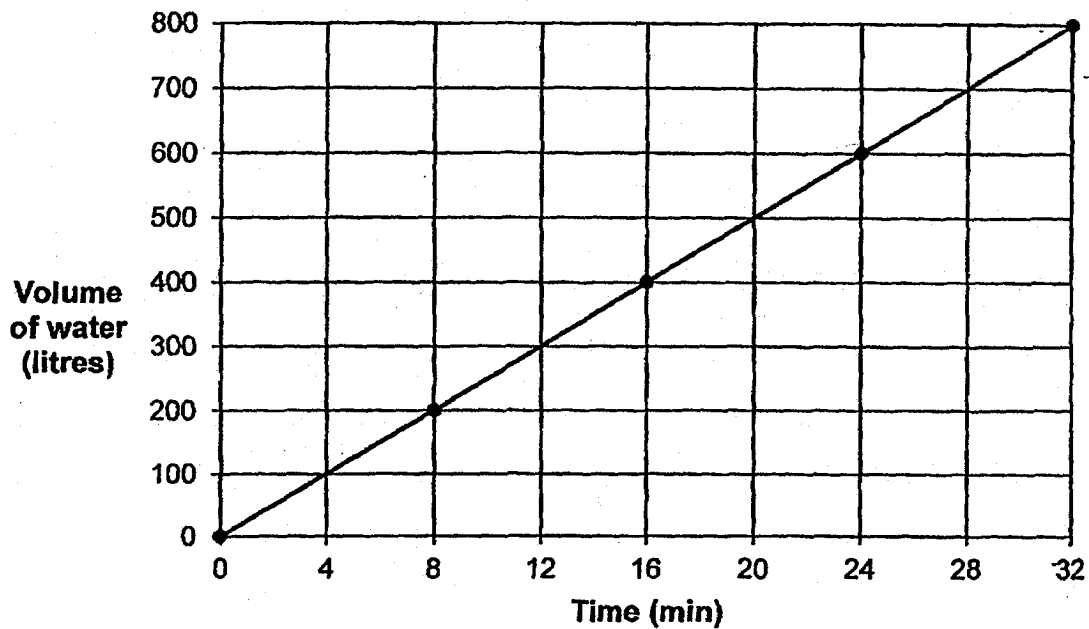

Ans: _____ [3]

9. Yi Hern bought some red, green and blue markers. $\frac{1}{4}$ of them were red and $\frac{4}{9}$ of the remaining markers were green. There were 60 blue markers. How many markers did he buy in all?

Ans: _____ [3]

10. Joanna turned on a tap to fill an empty tank with water. The volume of the tank was 850 ℓ. She turned off the tap after 32 min. The line graph shows the volume of water in the tank over 32 min.
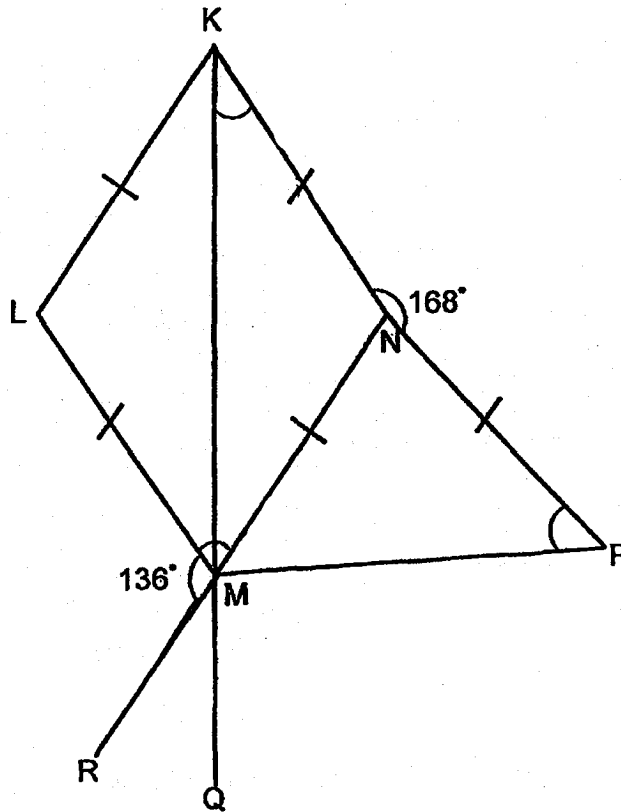

a) How many litres of water flowed into the tank in one minute?

b) How long does it take to fill half the tank with water?

Ans: a) _____ [1]

b) _____ [2]

11. In the figure, KLMN is a rhombus. RMN and QMK are straight lines and
MN = NP. ∠ KNP = 168° and ∠RML = 136°.

a) Find ∠ MKN.

b) Find ∠ MPN.

Ans: (a)_____ [2]

(b)_____ [2]

12.

Sale!
Buy 4 pens
Get another 1 free

During the sale, Lee Ching went to the store to get a total of 31 pens for her pupils and she spent $15 for the purchase.

a) What was the original price of one pen?

b) The next day, she found out she needed 8 more pens. How much money would she need to spend to get 8 more pens?

Ans: a) _____ [2]

b) _____ [2]

13. Rama was getting some items for the new school year. First, he bought some textbooks with $8 more than $\frac{1}{3}$ of his money. Next, he bought his stationery with $12.20 less than $\frac{1}{2}$ of his remaining money. Lastly, he bought some school socks with $2.80 more than $\frac{1}{2}$ of the money left. Then, he had $15.40 with him. How much money did he have at first?

14. Ali measured and recorded the mass of some lobsters. The average mass of the lobsters recorded by him was 3.925 kg. The actual average mass of the lobsters was 3.625 kg. Ali had recorded the mass of one of the lobsters as 5.2 kg when it should be 2.5 kg. How many lobsters were there?

Ans: _____[4]

15. Jonas had some money in the bank at the beginning of the year. The bank paid 2% interest at the end of each year. At the end of one year, Jonas had $5610 after receiving the interest.

a) How much did Jonas have at the beginning of the year?

b) Jonas took out 40% of the money after receiving the interest at the end of the year. He bought a refrigerator at a 15% discount. What was the original price of the refrigerator?

Ans: (a)_____ [1]

(b)_____ [3]

16. The figure is made up of two squares and two triangles. The area of square BCDE is 25 cm², the area of square EFGH is 169 cm² and the area of isosceles triangle ABH is 72 cm². AB = BH. ABE and HBC are straight lines.
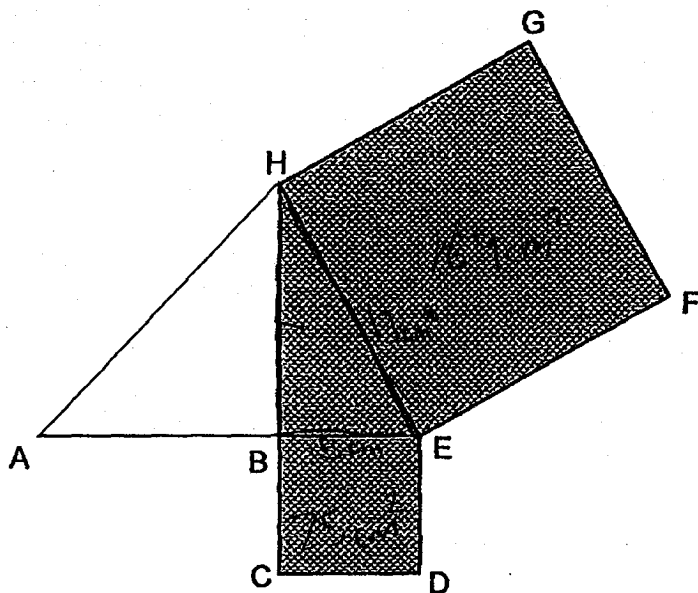
a) Find the area of the triangle BHE.

b) Find the perimeter of the shaded area.

Ans: (a)_____ [3]

(b)_____ [2]

17. There were 2 boxes of coins. Each box contained both twenty-cent coins and one-dollar coins. The ratio of the number of twenty-cent coins to the number of one-dollar coins in Box A was 1 : 2. Louise took out 5 one-dollar coins from Box A and exchanged them for twenty-cent coins. Then she put the twenty-cent coins into Box A. There were 40 twenty-cent coins in Box A in the end.

a) How many twenty-cent coins did Louise put into Box A?

b) After the exchange, the ratio of the total value of coins in Box A to the total value of coins in Box B was 5 : 4. What was the smallest possible number of coins in Box B?

Ans: (a)_____ [2]

(b)_____[3]

End of Paper
☺ **Please check your work carefully** ☺

SCHOOL   :   RAFFLES GIRLS' PRIMARY SCHOOL
LEVEL   :   PRIMARY 5
SUBJECT   :   MATH
TERM   :   2018 SA2

PAPER 1 BOOKLET A

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	2	1	3	3	4	2	4	3	1

Q11	Q12	Q13	Q14	Q15
4	1	2	2	3

PAPER 1 BOOKLET B

Q16)	94
Q17)	7900 g
Q18)	2/3
Q19)	1 9/28
Q20)	284^0
Q21)	5.8 x 2000 = 11600 11600 ÷ 80 = **145**
Q22)	9 – 6 = 3 9 + 6 = 15 270 ÷ 2 = 135 135 ÷ 15 = 9 9 x 3 = **27**
Q23)	255 ÷ 3 = 85 85 x 2 = 170 170 + 38 = **208**
Q24)	8 x 2/5 = 16/5 16/5 – 9/10 = **2 3/10**
Q25)	36 ÷ 2 = **18 cm²**

Q26)	$93^0 + 31^0 = 124^0$ $180^0 - 124^0 = \mathbf{56^0}$
Q27)	$400 \times 40/100 = 160$ $160 - 68 = 92$ $400 - 92 = \mathbf{308}$
Q28)	$120 \div 8 = 15$ $300 \div 15 = 20$ $20 \times 2.08 = \mathbf{\$41.60}$
Q29)	$120 - 48 = 72$ $72 \div 2 = 36$ $36 + 48 = 84$ $36 : 84$ $\mathbf{3 : 7}$
Q30)	a) False b) Impossible to tell

PAPER 2

Q1)	$72 \frac{1}{2} \div 3 = 24 \ 1/6$ kg
Q2)	$0.3 + 0.5 = 0.8$ $33.6 \div 0.8 = \mathbf{42}$
Q3)	a) 137^0 b)
Q4)	$599.2 \times 7/107 = 39.2$ $599.2 - 39.2 = \mathbf{\$560}$
Q5)	$0.2 \times 2 = 0.4$ $1.65 + 0.4 = \mathbf{\$2.05}$
Q6)	$35 \times 2 + 20 = 90$ $426 - 90 = 336$ $336 \div 3 = \mathbf{112}$

Q7)	2 x 7 = 14 14 + 4 = 18 18 ÷ 2 = 9 9 x 3 = 27 27 + 4 = **31**
Q8)	11 - 2 = 9 9 x 18 x 23 = 3726 3726 ml – 828 ml = 2898 ml $\qquad$ = **2.898 L**
Q9)	¼ = 3/12 ¾ x 4/9 = 1/3 12 – 3 – 4 = 5 60 ÷ 5 = 12 12 x 12 = **144**
Q10)	a) 100 ÷ 4 = **25** b) 850 ÷ 2 = 425 $\quad$ 425 – 25 = 400 $\quad$ 16 + 1 = **17**
Q11)	a) $180^0 - 136^0 = 44^0$ $\quad 44^0 ÷ 2 = \mathbf{22^0}$ b) $360^0 - 136^0 - 168^0 = 56^0$ $\quad (180^0 - 56^0) ÷ 2 = \mathbf{62^0}$
Q12)	a) 6 x 4 = 24 $\quad$ 24 + 1 = 25 $\quad$ 15 ÷ 25 = **$0.60** b) 8 – 1 = 7 $\quad$ 7 x 0.6 = **$4.20**
Q13)	2.8 x 15.4 = 18.2 18.2 x 2 = 36.4 36.4 – 12.2 = 24.2 24.2 x 2 = 48.4 48.4 + 8 = 56.4 56.4 ÷ 2 = 28.2 28.2 x 3 = 84.60 (**Ans : $84.60**)

Q14)	3.925 kg − 3.625 kg = 0.300 kg 5.2 kg − 2.5kg = 2.7 kg 2.7 kg ÷ 0.300 kg = **9**

Q15)	a) 5610 x 2/102 = 110
	   5610 − 110 = **$5500**
	
	b) 5610 x 40 = 2244
	   2244 x 100/84 = **$2640**

Q16)	a) 13 x 13 = 169
	   72 x 2 = 144
	   12 x 12 = 144
	   ½ x 12 cm x 5 cm = **30 cm²**
	
	b) 13 x 3 = 39
	   5 x 3 = 15
	   15 + 39 + 12 = **66 cm**

Q17)	a) 5 ÷ 0.2 = **25**
	
	b) 25 + 8 = 33
	   33 ÷ 5 = 6.6
	   6.6. x 4 = 26.4
	   25 + 1 = 26
	   0.4 ÷ 0.2 = 2
	   2 + 26 = **28**