RAFFLES GIRLS' PRIMARY SCHOOL
END-OF-YEAR EXAMINATION 2020
MATHEMATICS (PAPER 1)
PRIMARY 5

Name: _____ ( )

Form Class: P5 _____ Math Teacher : _____

Date: 29 October 2020 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. Express 35 kg 9 g in kilograms.

   (1) 35.009 kg

   (2) 35.09 kg

   (3) 35.9 kg

   (4) 3.59 kg

2. Which digit in 267.985 is in the hundredths place?

   (1) 5

   (2) 2

   (3) 8

   (4) 9

3. Express $\frac{5}{8}$ as a decimal.

   (1) 0.160

   (2) 0.500

   (3) 0.580

   (4) 0.625

4. The mass of 1 box of cookies is 0.59 kg. What is the total mass of 30 such boxes of cookies?

   (1) 1.70 kg

   (2) 15.70 kg

   (3) 17.70 kg

   (4) 18.29 kg

5. Mr. Tan had 6 kg of sugar. He used $\frac{5}{9}$ of it to bake some cakes. How much sugar had he left?

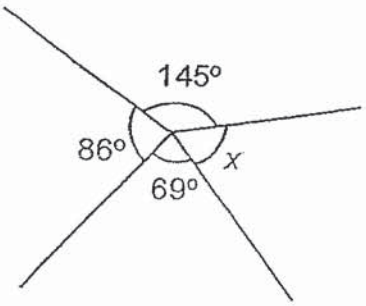
(1) $\frac{2}{3}$ kg

(2) $1\frac{2}{3}$ kg

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

(4) $3\frac{1}{3}$ kg

6. In the figure, find the value of $\angle x$.



(1) 35°

(2) 60°

(3) 86°

(4) 94°

7. The average of 6 numbers is 103. The sum of 5 of the numbers is 430. What is the value of the sixth number?

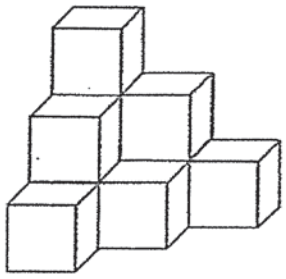
(1) 188

(2) 327

(3) 533

(4) 618

8. The figure is made up of cubes of edge 1 cm. How many more of such cubes must be added for the figure to have a volume of 36 cm^3 ?



(1) 24
(2) 26
(3) 28
(4) 30

9. Jane had $30 at first. She spent $24 on a box of chocolates. What percentage of her money had Jane left?

(1) 20%
(2) 25%
(3) 60%
(4) 80%

10. There were 80 books altogether in a library. 24 books were fiction books and the rest were non-fiction books. What was the ratio of the number of fiction books to the number of non-fiction books?

(1) 3 : 7
(2) 3 : 10
(3) 7 : 3
(4) 10 : 3

11. What is the missing number?

$2142 \div 20 =$ _____ $\times 10$

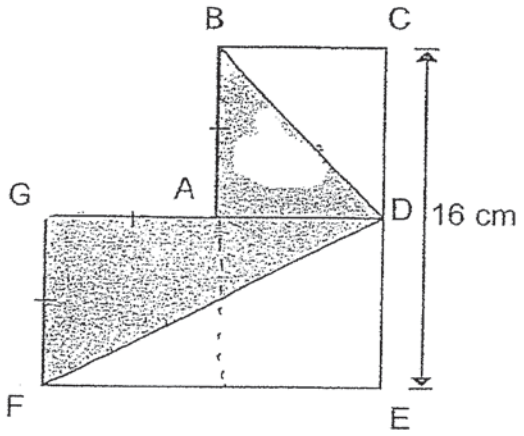
(1) 1071

(2) 107.1

(3) 10.71

(4) 1.71

12. In the figure, ABCD is a square and DEFG is a rectangle. CE = 16 cm and FG = GA. Find the area of the shaded parts.



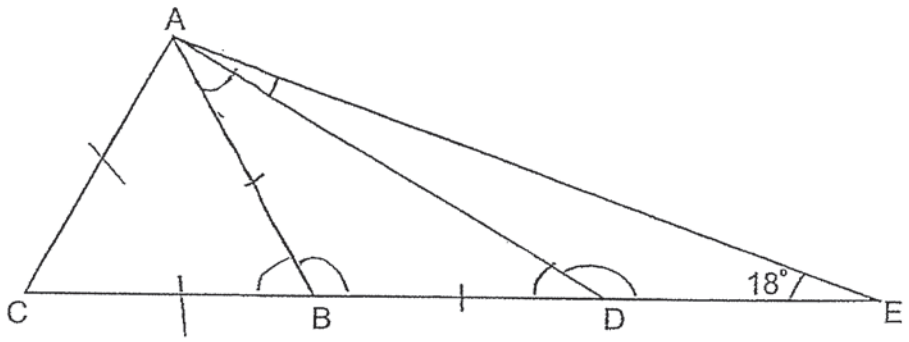
(1) 64 cm^2

(2) 96 cm^2

(3) 160 cm^2

(4) 172 cm^2

13. In the figure, ABC is an equilateral triangle and AB = BD. $\angle$AED is 18°. Find the value of $\angle$DAE.



(1) 12°

(2) 15°

(3) 27°

(4) 28°

14. A pole is $\frac{7}{10}$ m long. $\frac{1}{5}$ of it is painted blue and the rest of it is painted green. What is the length of pole that is painted green?

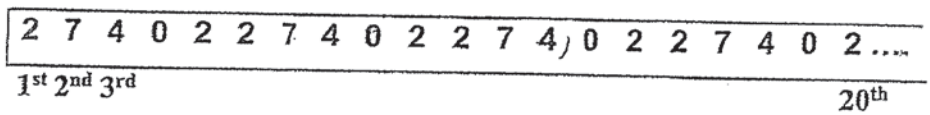
(1) $\frac{7}{50}$ m

(2) $\frac{1}{2}$ m

(3) $\frac{14}{25}$ m

(4) $\frac{4}{5}$ m

15. A repeated pattern is formed using the digits 2, 4, 7 and 0.
The first 20 digits are shown.



What is the 113th digit?

(1) 0

(2) 2

(3) 7

(4) 4

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. Find the value of $3 \times (42 - 24) \div 2 + 7$.

Ans: _____

17. The area of a rectangle is 78 cm^2 and its breadth is 5 cm. What is the length of the rectangle? Express your answer as a mixed number in the simplest form.

Ans: _____ cm

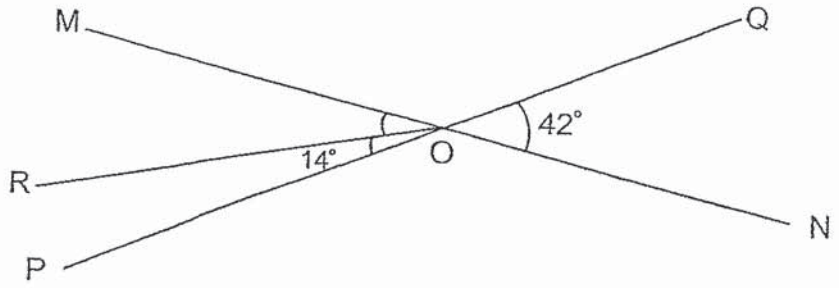
18. Teena is 1.48 m tall. She is 16 cm taller than Mary. What is Mary's height in metres?

Ans: _____ m

19. Mr Ong bought 28 fruits. $\frac{2}{7}$ of them were apples. How many apples did he buy?

Ans: _____

20. In the figure, MN and PQ are straight lines.
$\angle QON = 42^\circ$ and $\angle ROP = 14^\circ$. Find the value of $\angle MOR$.



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 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 missing numbers?

(a) $87.6 \div \boxed{?} = 0.0876$

(b) $3.4 \times 100 = \boxed{?}$

Ans: (a) _____

Ans: (b) _____

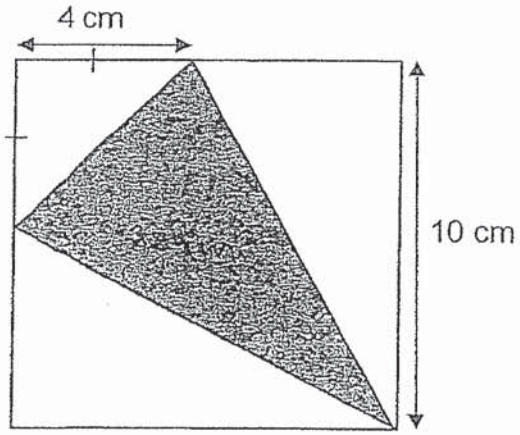
22. Edwin, Nicholas and Andrew each has some stamps. Edwin has twice as many stamps as Nicholas. Nicholas has 4 times as many stamps as Andrew. If Nicholas has 36 stamps, How many more stamps does Edwin have than Andrew?

Ans: _____

23. Xeny, Yan and Zani shared a box of chocolates. Xeny and Yan received the same number of chocolates. The ratio of the total number of chocolates Xeny and Yan received to the total number of chocolates Yan and Zani received is 8 : 15. What was the ratio of the number of chocolates Zani received to the total number of chocolates in the box at first?

Ans: _____

24. Find the area of the shaded part in the square.



Ans: _____ cm^2

25. In a day, Jamie spent $\frac{1}{4}$ of the day in school and $\frac{1}{12}$ of the day doing her homework. How many hours did Jamie spend in school and doing her homework altogether? Give your answer in hours.

Ans: _____ h

26. Molly formed a rectangle using a piece of wire. The breadth of the rectangle was $\frac{1}{6}$ m. Its length was 3 times as long as its breadth. What was the length of the wire? Give your answer as a mixed number in its simplest form.

Ans: _____ m

27. A fruit seller had 260 apples and 370 oranges. 10% of his apples and 20% of his oranges were rotten. How many fruits were not rotten?

Ans: _____

28. The ratio of Gary's age to Harry's age now is 3 : 2.
Eight years ago, Gary was 10 years old. How old is Harry now?

Ans: _____ years old

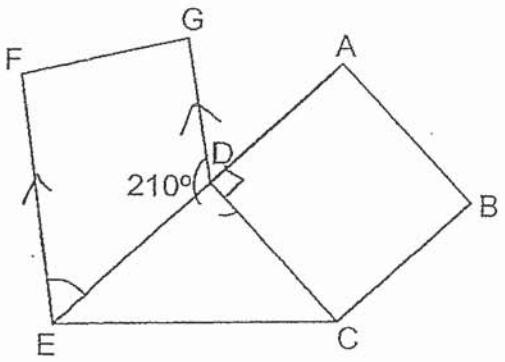
29. The table shows the range of scores of all the participants in the first round of a competition. A higher score means a better performance.

Score	0 - 5	6 - 10	11 - 15	16 - 20	21 - 25
Number of Participants	5	35	35	13	12

From the first round, the top $\frac{1}{4}$ of the participants were allowed to move on to the next round of competition. What was the minimum score that a participant obtained to move on to the next round of competition?

Ans: _____

30. In the figure, ABCD is a square and DEFG is a trapezium where EF // DG. ADE is a straight line and $\angle CDG = 210°$. Find $\angle FED$.



Ans: _____ °

End of Paper

☺ Please check your work carefully ☺

RAFFLES GIRLS' PRIMARY SCHOOL
END-OF-YEAR EXAMINATION 2020
MATHEMATICS (PAPER 2)
PRIMARY 5

Name: _____ ( )

Form class: P5 _____ Math Teacher : _____

Date: 29 October 2020 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 Pauline had $1\frac{1}{5}$ kg of flour at first. She then bought twice the amount of flour she had. She used some of the flour to bake cookies and had $\frac{3}{8}$ kg of flour left. How much flour did she use to bake cookies?

Ans : _____ kg

2. A book cost $145 before GST. At a sale, Benny bought the book at a 20% discount and paid 7% GST on the discounted price. How much was the GST?

Ans : $ _____

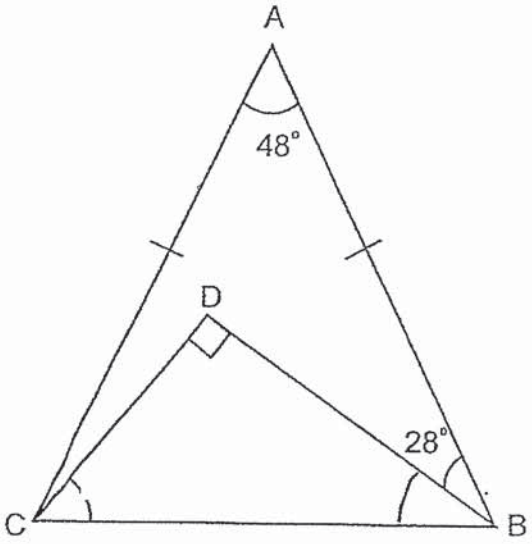
3. Four classes took part in a competition and their scores were recorded in the table as shown. All their scores were 2-digit numbers. However, some digits were covered by ink blots.

Class	Score
A	45
B	39
C	3
D	

The average score for the 4 classes was 41. What was the highest possible score for Class D?

Ans : _____

4. In the figure, ABC is an isosceles triangle where AC = AB and BCD is a right-angled triangle. $\angle$ BAC is 48° and $\angle$ ABD is 28° Find the value of $\angle$ DCB.



Ans: _____ °

5. At first, Anna only had red beads and Mandy only had yellow beads. Then, Anna gave $\frac{1}{2}$ of her red beads to Mandy and Mandy gave $\frac{1}{2}$ of her yellow beads to Anna. After that, Anna sold some beads and Mandy sold $\frac{3}{4}$ as many beads as Anna.

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)	Anna and Mandy gave each other an equal number of beads.			
(b)	After Anna and Mandy gave each other beads, they had the same number of beads.			
(c)	In the end, Anna had more beads than Mandy.			

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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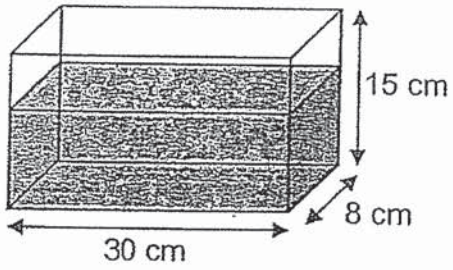
6. A rectangular fish tank measuring 30 cm by 8 cm by 15 cm is $\frac{2}{3}$ filled with water.

(a) How much water is there in the tank? Give your answers in litres.

(b) How much more water is needed to fill the tank to the brim?



Ans: (a) _____ [2]

(b) _____ [1]

7. A total sum of $9792 was collected from selling some tables and chairs. Each table cost $534 and each chair cost $168 less than a table. The number of chairs sold was 3 times the number of tables sold.

a) What was the cost of 1 chair?

b) How many tables were sold altogether?

Ans: (a) _____ [1]

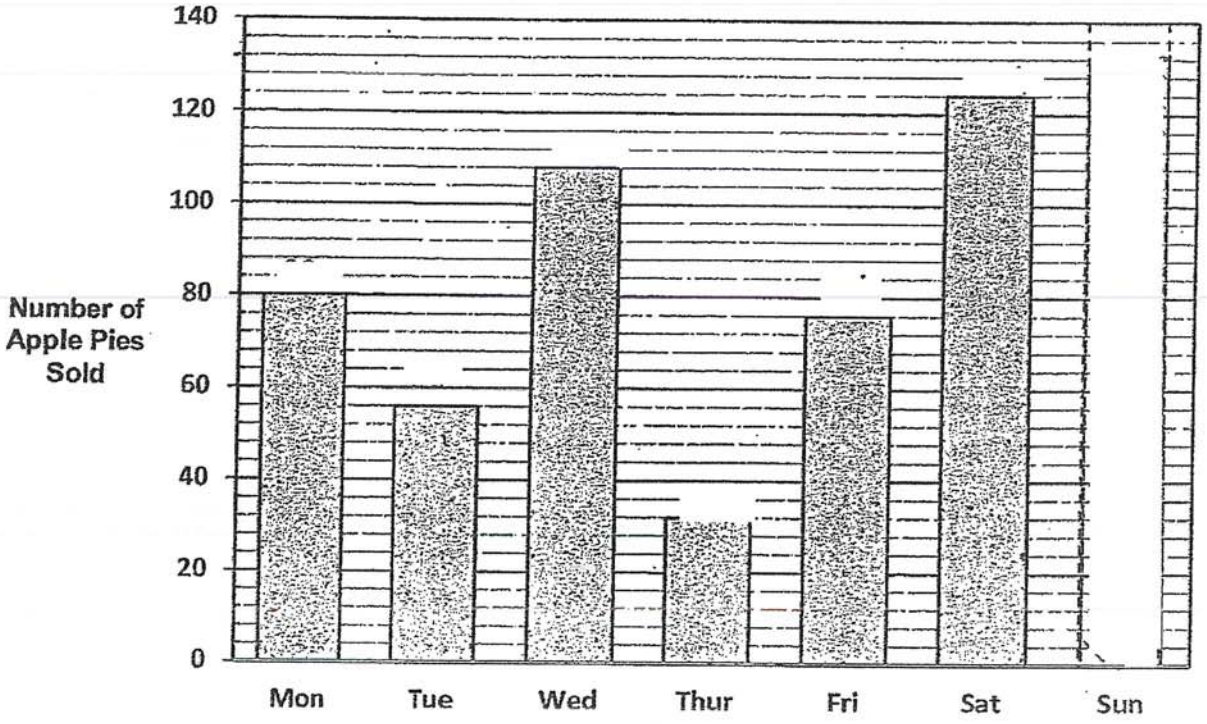
(b) _____ [2]

8. Anna and Bella had the same amount of money at first. After Anna spent $\frac{3}{4}$ of her money and Bella spent $\frac{7}{12}$ of her money, Bella had \$94 more money than Anna. How much money did each of them have at first?

Ans: _____ [3]

9. The bar graph shows the number of apple pies sold in a week.

The bar for Sunday has not been drawn.



(a) What was the greatest increase in the number of apple pies sold compared to the day before?

(b) Each apple pie was sold at $2.65. The total amount of money collected from the sale of apple pies on Sunday was $349.80. What was the number of apple pies sold on Sunday?
Draw the bar for Sunday in the graph above. [2]

Ans: (a) _____ [2]

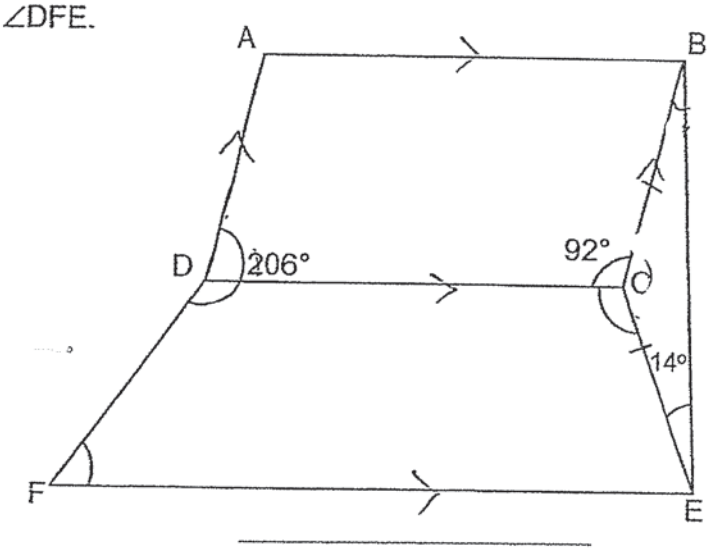
10. In the figure, ABCD is a parallelogram, CEFD is a trapezium where CD // EF.

BCE is an isosceles triangle where BC = CE. ∠ADF = 206°, ∠BCD = 92° and ∠BEC = 14°.

Find the value of

(a) ∠DCE.

(b) ∠DFE.



Ans: (a) _____ [2]

(b) [2]

11. 3600 people were at a performance in the morning. 60% of the people were adults and the rest were children. 20% of the children and some adults left the performance in the afternoon. In the end 50% of the remaining people were children.

(a) How many children left the performance in the afternoon?

(b) How many adults left the performance in the afternoon?

Ans: (a) _____ [2]

(b) _____ [2]

12. Mr Nassim wanted to paint 34 identical small boxes and 15 identical large boxes. The amount of paint he used to paint 2 large boxes was the same as that for 5 small boxes. He painted 11 small boxes and 12 large boxes with 82ℓ of paint.

(a) How much paint was needed to paint 1 small box?

(b) How many litres of paint did Mr Nassim need to paint the remaining boxes?

Ans: (a) _____ [2]

(b) _____ [2]

13. Alyssa has a sum of money. If she buys 3 encyclopedias, she will have $145.80 left. If she buys 8 such encyclopedias, she will need $195.70 more. How much money does Alyssa have?

Ans: _____ [4]

14 Megan had $21.70 at first. Putri had four times as much money as Megan. After Putri gave some of her money to Megan, and Megan saved another five times as much money as the amount Putri gave her, they had the same amount of money. How much money did Megan have in the end?

Ans: _____ [3]

15. A baker made some muffins for sale. After selling 650 of them in the morning and $\frac{3}{7}$ of the remaining muffins in the afternoon, he had $\frac{1}{3}$ of the muffins left.

(a) How many muffins did the baker have at first?

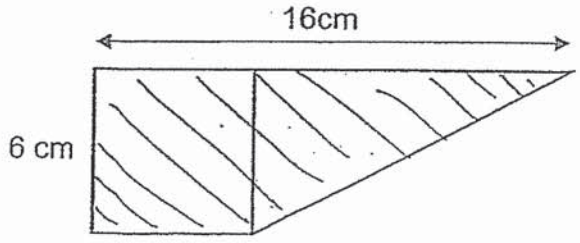
(b) How many muffins were left?

Ans: (a) _____. [2]

(b) _____ [1]

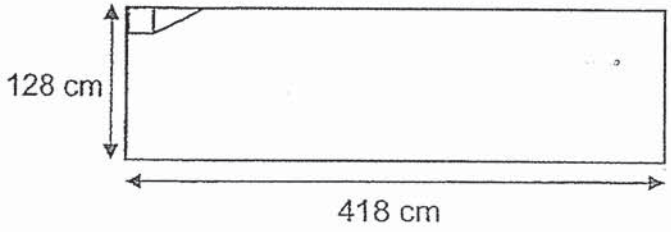
16 The shaded figure is made up of a square and a right-angled triangle.

(a) What is the total area of the shaded figure?



(b) Johan wants to cut out the shaded figure using a rectangular piece of paper measuring 128 cm by 418 cm.

What is the maximum number of the figures he can cut out from the paper?



Ans: (a) _____ [2]

(b) _____ [3]

17. The table shows the prices of 3 types of pots.

Small pot	Medium pot	Large pot
$15	$25	$30

The ratio of the number of small pots sold to the number of medium pots sold was 11 : 8. The ratio of the number of medium pots sold to the number of large pots sold was 5 : 4.

The total amount of money collected from the sale of the small pots was $3300.

(a) How many small pots were sold?

(b) What was the total amount of money collected from the sale of the large pots?

Ans: (a) _____ [1]

(b) _____ [4]

End of Paper

☺ Please check your work carefully ☺

ANSWER KEY

YEAR : 2020
LEVEL : PRIMARY 5
SCHOOL : RAFFLES GIRLS' PRIMARY SCHOOL
SUBJECT : MATHEMATICS PAPER 1
TERM : END OF YEAR

SECTION A

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

SECTION B

Q16	34
Q17	$78 \div 5 = 15\frac{3}{5}$cm
Q18	1.48 – 0.16 = 1.32m
Q19	$\frac{2}{7} \times 28 = 8$
Q20	42 – 14 = 28º
Q21a	1000
Q21b	340
Q22	36 ÷ 4 = 9 9 x 7 = 63
Q23	15 – 4 = 11 11 + 8 = 19 ANS: 11:19
Q24	10 – 4 = 6 $\frac{1}{2} \times 4 \times 4 = 8$ $\frac{1}{2} \times 10 \times 6 = 30$ 100 – 30 – 30 – 8 = 32cm²
Q25	24 ÷ 12 = 2 2 x 4 = 8h

Q26	$\frac{1}{6} \times 3 = \frac{3}{6}$ $\frac{3}{6} + \frac{3}{6} + \frac{1}{6} + \frac{1}{6} = \frac{8}{6}$ ANS: $1\frac{1}{3}$m
Q27	$\frac{90}{100} \times 260 = 234$ $\frac{80}{100} \times 370 = 296$ 234 + 296 = <u>530</u>
Q28	10 + 8 = 18 18 ÷ 3 = 6 6 × 2 = <u>12 years old</u>
Q29	5 + 35 + 35 + 13 + 12 = 100 $\frac{1}{4} \times 100 = 25$ (number of participant that moved on) ANS: <u>16</u>
Q30	210 – 90 = 120 180 – 120 = <u>60º</u>

PAPER TWO

Q1	$1\frac{1}{5} + 1\frac{1}{5} = 2\frac{2}{5}$ $2\frac{2}{5} + 1\frac{1}{5} = 3\frac{3}{5}$ $3\frac{3}{5} - \frac{3}{8} = 3\frac{9}{40}$ kg
Q2	$\frac{20}{100} \times 145 = 29$ 145 – 29 = 116 $\frac{7}{100} \times 116 =$ <u>$8.12</u>
Q3	41 × 4 = 164 164 – 45 – 39 = 80 80 – 30 = <u>50</u>
Q4	(180 – 48) ÷ 2 = 66 66 – 28 = 38 180 – 90 – 38 = <u>52º</u>

Q5

Statements		True	False	Impossible to tell
(a)	Anna and Mandy gave each other an equal number of beads.			✓
(b)	After Anna and Mandy gave each other beads, they had the same number of beads.	✓		
(c)	In the end, Anna had more beads than Mandy.		✓	

Q6a

$30 \times 8 \times 15 = 3600$

$\frac{2}{3} \times 3600 = 2400$

2400ml = 2.4l

Q6b

3600 – 2400 = 1200

1200ml = 1.2l

Q7a

534 – 168 = $366

Q7b

366 × 3 = 1098

1098 + 534 = 1632

9792 ÷ 1632 = 6 tables

Q8

94 ÷ 2 = 47

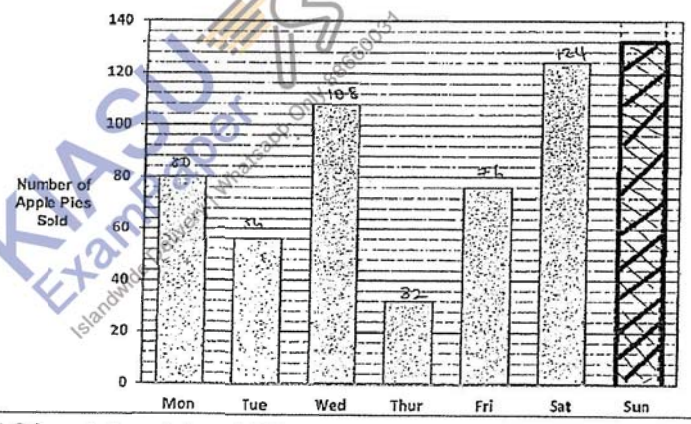
47 ×12 = $564

Q9a

108 – 56 = 52

Q9b

349.8 ÷ 2.65 = 132



Q10a

180 – 14 – 14 = 152

360 – 152 – 92 = 116º

Q10b

180 – 92 = 88

206 – 88 = 118

180 – 118 = 62º

Q11a	$\frac{60}{100} \times 3600 = 2160$ (adults) $3600 - 2160 = 1440$ (children) $\frac{20}{100} \times 1440 = \underline{288}$
Q11b	$1440 - 288 = 1152$ $2160 - 1152 = \underline{1008}$
Q12a	2 large box = 5 small box 12 large box = 30 small box $11 + 30 = 41$ $82 \div 41 = \underline{2ℓ}$
Q12b	5 small box = 10ℓ 2 large box = 10ℓ 1 large box = 5ℓ $3 \times 5 = 15ℓ$ $23 \times 2 = 46ℓ$ $15 + 46 = \underline{61ℓ}$
Q13	$195.7 + 145.8 = 341.5$ $8 - 3 = 5$ $341.5 \div 5 = 68.3$ $68.3 \times 3 = 204.9$ $204.9 + 145.8 = \underline{\$350.7}$
Q14	$21.7 \times 3 = 65.10$ $65.10 \div 7 = 9.30$ $9.30 \times 6 = 55.80$ $55.80 + 21.70 = \underline{\$77.50}$
Q15a	$650 \div 5 = 130$ $130 \times 12 = \underline{1560}$
Q15b	$130 \times 4 = \underline{520}$
Q16a	$6 \times 6 = 36$ $16 - 6 = 10$ $\frac{1}{2} \times 10 \times 6 = 30$ $30 + 36 = \underline{66cm^2}$
Q16b	$128 \div 6 = 21.33$ $6 + 16 = 22$ $418 \div 22 = 19$ $21 \times 19 \times 2 = \underline{798}$
Q17a	$3300 \div 15 = \underline{220}$

Q17b	S : M = 11 : 8 = 55 : 40 M : L = 5 : 4 = 40 : 32 220 ÷ 55 = 4 4 × 32 = 128 128 × 30 = $\underline{\$3840}$

END

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