WSW / GAL / SL / WC

SINGAPORE CHINESE GIRLS' SCHOOL

FIRST SEMESTRAL ASSESSMENT 2018

PRIMARY 5

MATHEMATICS
PAPER 1

BOOKLET A

Name : _____( ) 2 May 2018

Class : Primary 5 SY/C/G/SE/P

		Marks attained	Max Mark
Paper 1	Booklet A		20
	Booklet B		25
Paper 2			55
Total Marks			100

Parent's Signature

15 Questions
20 Marks

Total Time for Booklets A and B: 1 h

INSTRUCTIONS TO CANDIDATES
Do not open this booklet until you are told to do so.
Follow all instructions carefully.
Answer all questions.
The use of calculator is NOT allowed.

Booklet A

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 the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet. **(20 marks)**

---

1. In 241 086, the digit 4 is in the _____ place.

   (1) hundreds
   (2) thousands
   (3) ten thousands
   (4) hundred thousands

2. Find the value of $20 - 4 \times 5 \div 2 + 2$

   (1) 12
   (2) 15
   (3) 20
   (4) 42

3. Express $3 + \frac{1}{10} + \frac{3}{500}$ as a decimal.

   (1) 3.13
   (2) 3.16
   (3) 3.103
   (4) 3.106

4. $68 \times 15 = 15 \times 30 +$ _____ $\times 15 + 2 \times 15$

   (1) 8
   (2) 21
   (3) 36
   (4) 38

5. What is the product of $\frac{1}{6}$ and $\frac{3}{4}$?

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

(2) $\frac{1}{8}$

(3) $\frac{4}{10}$

(4) $\frac{11}{12}$

6. What is the missing value?

6 : 8 = _____ : 28

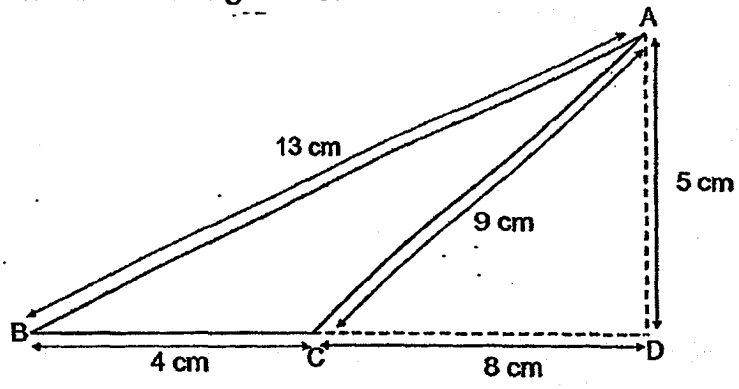
(1) 12

(2) 16

(3) 21

(4) 40

7. Find the area of triangle ABC.



(1) 10 cm^2

(2) 18 cm^2

(3) 20 cm^2

(4) 30 cm^2

8. Which fraction has the smallest value?

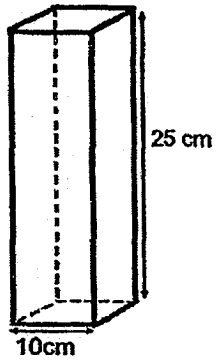
(1) $\frac{2}{3}$

(2) $\frac{3}{7}$

(3) $\frac{5}{9}$

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

9. A container with a square base was filled with water to the brim. What is the volume of water?



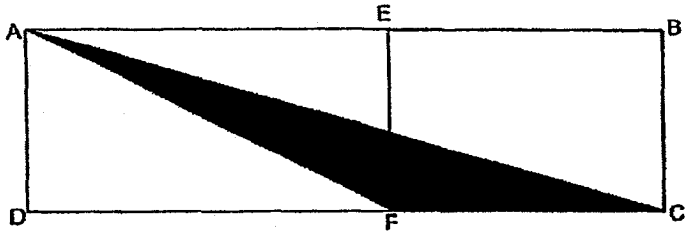
(1) 25 cm^3

(2) 250 cm^3

(3) 2500 cm^3

(4) 25 000 cm^3

10. Who made a correct statement about the area of triangle ACF?



Mary:	The area of triangle ACF is the same as the area of rectangle ABCD.
John:	The area of triangle ACF is half of the area of rectangle ABCD.
Alice:	The area of triangle ACF is the same as the area of rectangle BCFE.
Ben:	The area of triangle ACF is half of the area of rectangle BCFE.

(1) Mary

(2) John

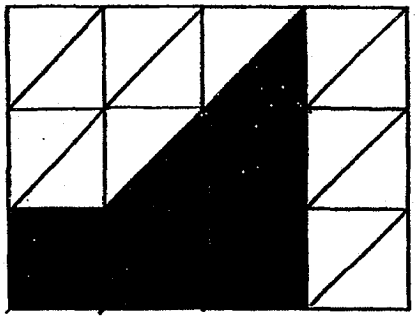
(3) Alice

(4) Ben

11. Mrs Tan ordered notebooks for her class of 40 students. Each notebook costs $1.20. Every student received one notebook. How much did she pay for the notebooks?

(1) $4.80
(2) $12
(3) $16.80
(4) $48

12. The figure is made up of 4 squares and 2 rectangles. What fraction of the figure is shaded?



(1) $\frac{2}{5}$
(2) $\frac{5}{12}$
(3) $\frac{7}{12}$
(4) $\frac{7}{18}$

13. Bernice and Shannon had a total of $450. The ratio of Bernice's money to Shannon's money is 2 : 7. How much more money does Shannon have than Bernice?

(1) $50
(2) $100
(3) $250
(4) $350

14. Amanda and Bryan have 40 marbles. Bryan and Charlotte have 35 marbles. Amanda and Charlotte have 45 marbles. How many marbles do they have altogether?

(1) 35
(2) 40
(3) 60
(4) 120

15. Dennis and Elaine had an equal number of stamps. After Elaine sold 30 stamps and Dennis sold 78 stamps, Elaine had 4 times as many stamps as Dennis left. How many stamps does Dennis have at first?

(1) 90
(2) 94
(3) 104
(4) 188

End of Booklet A

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SINGAPORE CHINESE GIRLS' SCHOOL

FIRST SEMESTRAL ASSESSMENT 2018

PRIMARY 5

MATHEMATICS
PAPER 1

BOOKLET B

Name : _____( ) 2 May 2018

Class : Primary 5 SY/C/G/SE/P

Paper 1	Mark attained	Max Mark
Booklet B		25

15 Questions
25 Marks

Total Time for Booklets A and B: 1 h

INSTRUCTIONS TO CANDIDATES
Do not open this booklet until you are told to do so.
Follow all instructions carefully.
Answer all questions.
The use of calculator is NOT allowed.

Booklet B

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. **(5 marks)**

Do not write in this column

16. Write 2 408 090 in words.

Ans: _____

17. 1 kg 5 g = _____ kg

Ans: _____ kg

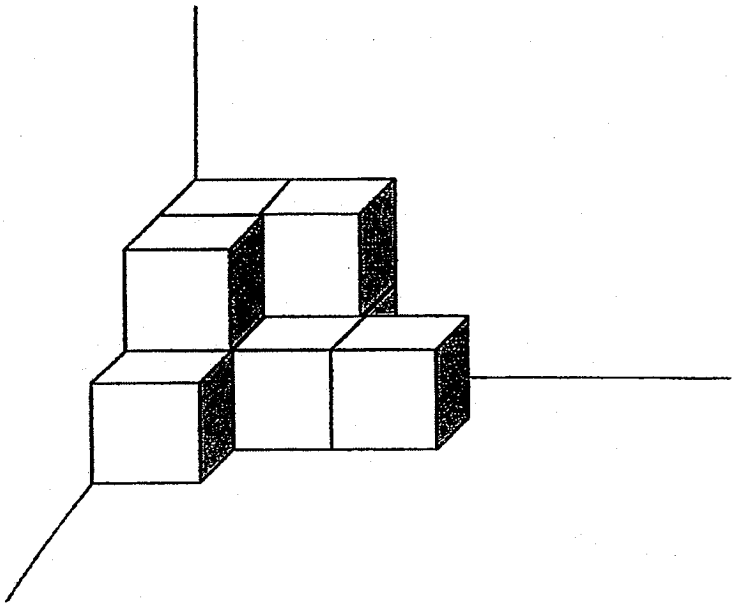
18. Express $\frac{6}{7}$ as a decimal. Leave your answer to the nearest 2 decimal places.

Ans: _____

3

19. The solid below is made up of 1-cm cubes stacking on top of one another. What is the volume of this solid?

Do not write in this column



Ans: _____ cm^3

---

20. Melody and Janice have a total mass of 63 kg. Melody's mass is 28 kg. What is the ratio of Melody's mass to Janice's mass? Express your answer in its simplest form.

Ans: _____

2

Questions 21 to 30 carry 2 marks each. Show your working clearly in the space for each question and write your answers in the space provided.
For questions which require units, give your answers in the units stated.

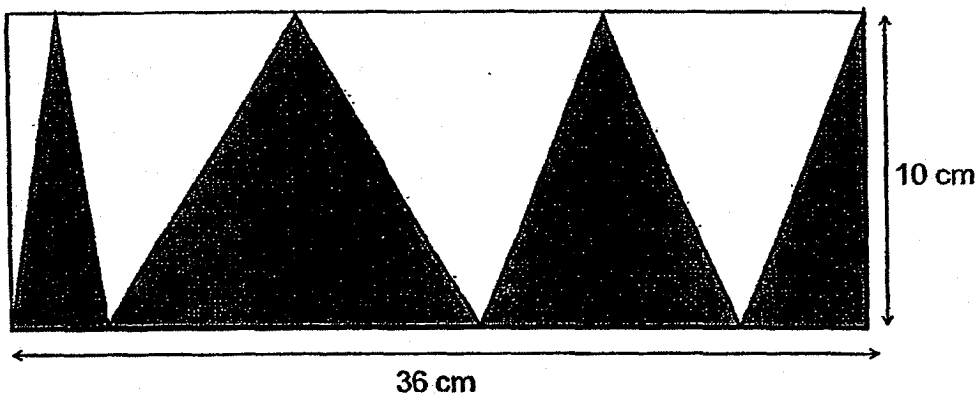
(20 marks)

Do not write in this column

21. What fraction is exactly in between $\frac{3}{8}$ and $\frac{1}{2}$

Ans: _____

22. Find the area of the shaded part of the figure.

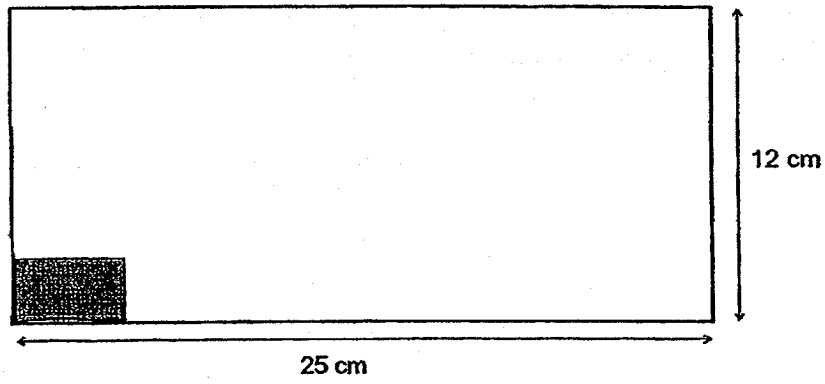


Ans: _____ cm^2

4

23. Peter has a piece of rectangular cloth measuring 25 cm by 12 cm. He wants to cut out smaller rectangles measuring 4 cm by 2 cm as shown below. What is the maximum number of smaller rectangles he will have?

Do not write in this column



Ans: _____

24. The ratio of Sonia's age to her mother's age is 1 : 4. In 6 years' time, the ratio of Sonia's age to her mother's age will be 1 : 3. How old is Sonia's mother now?

Ans: _____ years

4

25. The ratio of the length to breadth of a rectangle is 5 : 2. The length is 15 cm. Find the area of the rectangle.

Do not write in this column

Ans: _____ cm^2

---

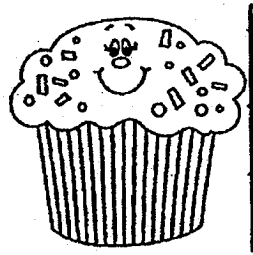
26. Mr Ahmad spent $\frac{1}{4}$ of his money on transport and $\frac{5}{6}$ of the remaining money on food. He then saved the rest. What fraction of his money did he save?

Ans: _____

4

27. Mdm Yeo wants to buy some cupcakes for a party. What is the least amount of money that Mdm Yeo must pay so that she will be able to get a total of 48 cupcakes?

Do not write in this column



3 cupcakes for $5

Buy 3 cupcakes and get 1 free

Ans: _____

28. Sasha had $\frac{9}{10}$ kg of flour. She used $\frac{2}{3}$ of it. How much flour does she have left? Give your answer as a fraction in the simplest form.

Ans: _____ kg

4

29. A small boat can either carry 6 adults or 14 children. There are already 3 adults and 2 children on board the boat. How many more children can the boat carry?

Do not write in this column

Ans: _____

30. A total of 76 children queued up for candy floss. There are at least 2 girls standing in between any 2 boys. What is the largest possible number of boys in the queue?

Ans: _____

End of Booklet B

4

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SINGAPORE CHINESE GIRLS' SCHOOL

FIRST SEMESTRAL ASSESSMENT 2018

PRIMARY 5

MATHEMATICS

PAPER 2

Name : _____( ) 2 May 2018

Class : Primary 5 SY/C/G/SE/P

	Mark	Max Mark
Paper 2		55

Parent's Signature

17 Questions
55 Marks

Total Time for Paper 2: 1 h 30 min

INSTRUCTIONS TO CANDIDATES
Do not open this booklet until you are told to do so.
Follow all instructions carefully.
Answer all questions.
The use of calculator is allowed.

Questions **1** to **5** carry 2 marks each. Show your working clearly in the space below each question and write your answers in the space provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this column

1. Amirah, Benjamin and Celene baked a total of 165 cookies. Amira baked 40 more cookies than Benjamin. Benjamin baked $\frac{1}{3}$ of what Celene baked. How many cookies did Benjamin bake?

Ans: _____

2. In a fruits shop, $\frac{2}{5}$ of the fruits were apples and $\frac{1}{6}$ of the remaining fruits were mangoes. The rest were oranges. There were 72 more apples than oranges. How many fruits were there altogether?

Ans: _____

4

3. The table shows the parking charges at SC Mall. Sharon parked her car at the mall from 1.30 p.m. to 3.45 p.m. How much does she have to pay?

Do not write in this column

First hour	$2
Every subsequent 30 minutes or part thereof	$0.50

Ans: $ _____

4. In a concert, the number of adults was 4 times the number of children and the number of girls was thrice the number of boys. There were 60 more adults than boys. How many girls were there at the concert?

Ans: _____

4

5. Mdm Ho bought 6 mangoes and 2 pears for $14.20. Mr Lee bought 2 mangoes and 3 pears for $6.60. How much does 1 pear cost?

Do not write in this column

Ans: $ _____

2

Questions 6 to 18, show your working clearly in the space below each question and write your answers in the space provided. The number of marks awarded is shown in the brackets [ ] at the end of the question or part-question.

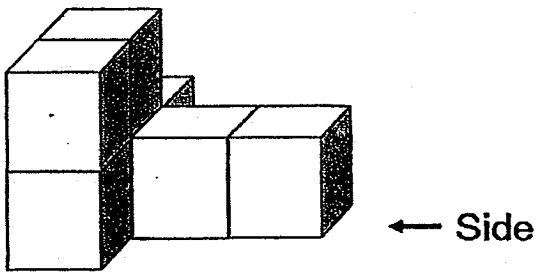
(50 marks)

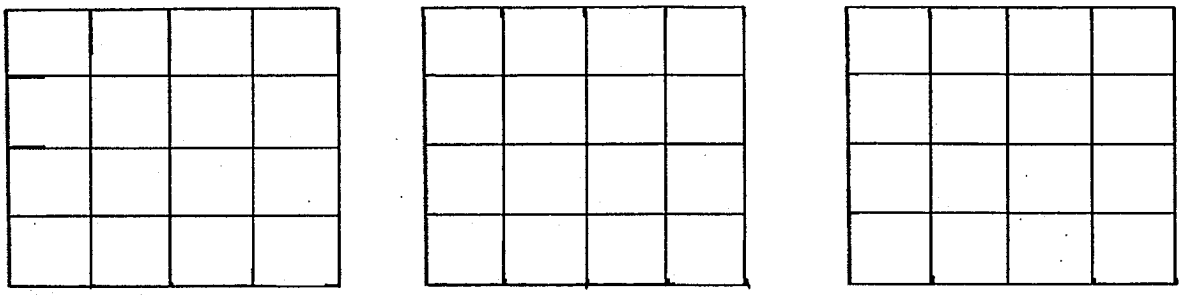
Do not write in this column

6. The ratio of sweets to chocolates that Janice has is 1 : 3. After buying another 24 more sweets, the ratio of sweets to chocolates became 3 : 5. How many sweets and chocolates did she have in total at first?

Ans: _____ [3]

7. Draw the front, side and top view of the figure shown below.





Front view Side view Top view

[3]

6

8. Marion had \$112 more than Tasha. After Tasha gave $\frac{1}{5}$ of her money to Marion, Tasha had $\frac{2}{7}$ of what Marion had. How much money did Marion have at first?

Do not write in this column

Ans : _____ [3]

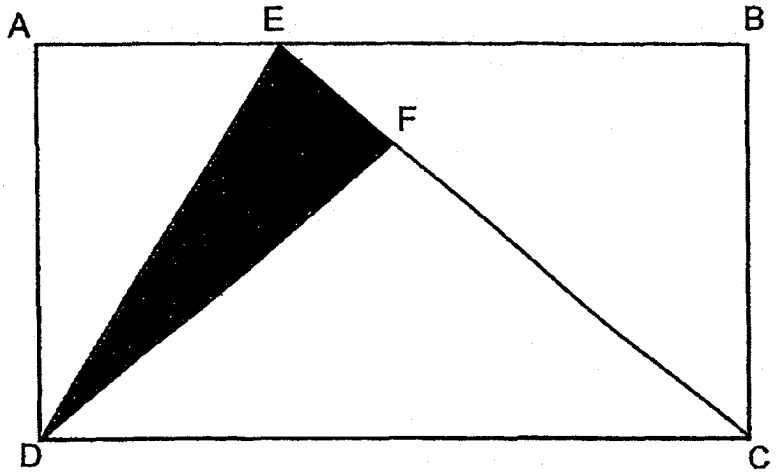
9. The length of a rectangle is thrice its breadth. After its length is shortened by 16 cm and its breadth is shortened by 2 cm, it will form a square. What is the area of the square?

Ans : _____ [3]

6

10. The area of the rectangle ABCD is 560 cm^2. The area of triangle CDF is 160 cm^2. Find the area of the shaded triangle DEF.

Do not write in this column



Ans : _____ [3]

3

11. Mrs Wong prepared 3.5 ℓ of orange juice to serve her guests. She poured exactly 400 mℓ of orange juice into each cup.

Do not write in this column

(a) What is the maximum number of cups of orange juice she can serve her guests?

(b) How much orange juice is there left?

Ans: (a) _____ [2]

(b) _____ [2]

4

12. A group of students were given some candies to be shared equally among them. They started by distributing 3 candies per student but realised that the last student only had 2 candies. However, if they distributed 5 candies to each student, there will be 5 students without any candies. How many candies were there altogether?

Do not write in this column

Ans: _____ [4]

4

13. At a carnival, Elizabeth spent $\frac{2}{5}$ of her money. Alayna spent $\frac{5}{7}$ of her money and Benedict spent \$15. They then had the same amount of money left. Benedict and Elizabeth have a total of \$175 at first. How much more money did Alayna have than Elizabeth at first?

Do not write in this column

Ans : _____ [4]

4

14. Sharon baked some cookies to sell as part of the fund raising carnival. On the first day, each cookie was sold at $1.50 and she collected a total of $90. On the second day, she decided to give a $0.30 discount for each cookie. How many more cookies must she sell to be able to collect the same amount of money as the first day?

Do not write in this column

Ans :_____ [4]

4

15. Benson spent \$20 less than $\frac{5}{9}$ of his money on a bag. He then spent $\frac{2}{9}$ of his remaining money on a wallet. Given that he had \$140 left, how much money did Benson have at first?

Do not write in this column

Ans: _____ [4]

4

16. The maximum marks for a test is 100. For every correct answer, 5 marks were awarded. For every incorrect answer, 2 marks were deducted. Eric attempted all the questions and scored 72 marks.

Do not write in this column

(a) How many questions did he answer correctly?

(b) He took the test again and got 2 additional questions correct. What is his new score?

Ans: (a) _____ [3]

(b) _____ [2]

5

17. There are some 20¢ and 50¢ coins in a box. For every 3 20¢ coins, there will be 2 50¢ coins. The value of 50¢ coins is $38 more than the value of 20¢ coins. Find the total number of coins.

Do not write in this column

Ans: _____ [5]

5

End of Paper 2

SCHOOL : SINGAPORE CHINESE GIRLS' SCHOOL
LEVEL : PRIMARY 5
SUBJECT : MATH
TERM : 2018 SA1

PAPER 1 BOOKLET A

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

Q11	Q12	Q13	Q14	Q15
4	2	3	3	2

PAPER 1 BOOKLET B

Q16)	Two million, four hundred and eight thousand and ninety.
Q17)	1.005
Q18)	0.86
Q19)	9
Q20)	J —> 63 – 28 = 35 M : J 28 : 35 **4 : 5**
Q21)	3/8 = 6/16 4/8 = 8/16 In between —> **7/16**
Q22)	36 x 10 = 360 360 ÷ 2 = **180**
Q23)	25 ÷ 4 = 6 R 1 12 ÷ 2 = 6 6 x 6 = **36**

Q24)

	S : M : diff
Now —>	1 : 4 : 3
	2 : 8 : 6
6 yrs later —>	1 : 3 : 2
	3 : 9 : 6

1U —> 6

M (now) 8U —> 6 x 8 = **48**

Q25)

L	B
5	2

5U —> 15
1U —> 15 ÷ 5 = 3
2U —> 3 x 2 = 6
Area —> 15 x 6 = **90**

Q26) 1/6 x ¾ = 3/24 = **1/8**

Q27) 4 cupcakes —> $5

48 ÷ 4 = 12

48 cupcakes —> $5 x 12 = **$60**

Q28) 1 - 2/3 = 1/3
1/3 x 9/10 = **3/10**

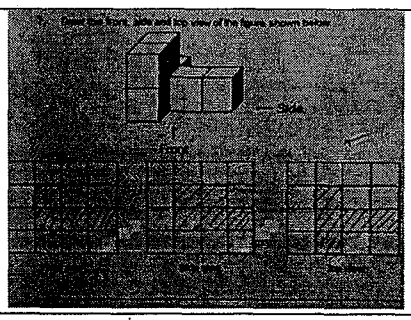
Q29)

A : C
6 : 14
3 : 7

7C + 2C = 9C
14C - 9C = **5C**

Q30) 76 ÷ 3 = 25 R 1
25 + 1 = **26**

PAPER 2

Q1)	165 – 40 = 125 125 ÷ 5 = **25**
Q2)	A —> 4U M —> 1U O —> 5U 1U —> 72 Total —> 4U + 1U + 5U = 10U 10U —> 72 x 10 = **720**
Q3)	$2 + $0.50 + $0.50 + $0.50 = **$3.50**
Q4)	15U —> 60 1U —> 60 ÷ 15 = 4 3U —> 4 x 3 = **12**
Q5)	6m + 2p = $14.20 2m + 3p = $6.60 6m + 9p = $6.60 x 3 = $19.80 7p = $19.80 - $14.20 = $5.60 1p = $5.60 ÷ 7 = **$0.80**
Q6)	4u —> 24 1u —> 24 ÷ 4 = 6 At first, 20u —> 6 x 20 = **120**
Q7)	
Q8)	4p —> 112 1p —> 112 ÷ 4 = 28 At first m —> 2.5p + 112 = 22 x 28 + 112 = **182**

Q9) 16 – 2 = 14

1u —> 14 ÷ 2 = 7cm

Side of square —> 5 cm

Area —> 5 cm^2 x 5 cm^2 = **25 cm^2**

Q10) Triangle DFC —> ½ x 560 cm^2 = 280 cm^2

Triangle DEF —> 280 cm^2 - 160 cm^2 = **120 cm^2**

Q11) 1 litre → 1000 ml

3 litre → 3000 ml

3.5 litre → 3500 ml

a) 3500ml ÷ 400 ml = 8.75 = 8 ¾ = **8**

b) Remainder → ¾ x 400 = **300 ml**

Q12) Multiple of 3 : 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36

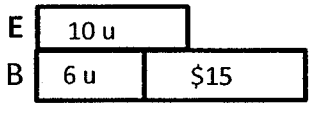
+2 : 5, 8, 11, 14, 17, **20**, 23, 26, 29, 32, **35**, 38

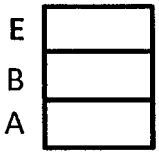
Multiple of 5 : 5, 10, 15, **20**, 25, 30, **35**, 40

12 pupils – 7 pupils = 5 pupils

Total no. of sweets → **35 (Ans)**

Q13)





16u → $175 - $115

= $160

1u → $160 ÷ 10

= $16

11u → $10 x 11

= **$110**

Q14) Day 1 → $90 ÷ $1.50 = 60

Day 2 → $1.50 - $0.30 = $1.20

Day 2 → $90 ÷ $1.20 = 75

How many more → 75 – 60 = **15**

Q15)	7u → 140 1u → 140 ÷ 7 = 20 9u → 20 x 9 = 180 4p → 180 – 20 = 160 1p → 160 ÷ 4 = 40 9p → 9 x 40 = **360**
Q16)	No. of Questions → 100 ÷ 5 = 20 Assume all correct Deduct → 100 – 72 = 28 Every one wrong → 5 + 2 = 7 No.of wrong → 28 ÷ 7 = 4 No. of right question → 20 – 4 = 16 18Q →19 x 5 = 90 2Q → 2 x 2 = 4 Mark → 90 – 4 = **86**
Q17)	Difference in 1 set → $1 - $0.60 = $0.40 No. of sets → $38 ÷ $0.40 = 95 Total no. of coins → 95 x 5 = **475**