AT / ELAU / GAL / LYL / WSW

SINGAPORE CHINESE GIRLS' SCHOOL

SECOND SEMESTRAL ASSESSMENT 2020

PRIMARY 5

MATHEMATICS
PAPER 1

BOOKLET A

Name : _____ ( )

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

28 October 2020

		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.
You are not allowed to use a calculator

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)**

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1. What does the digit 5 in 304.15 stand for?

   (1) 5 tens
   (2) 5 tenths
   (3) 5 hundreds
   (4) 5 hundredths

2. What is 502.5 ÷ 10?

   (1) 5.025
   (2) 5.25
   (3) 50.25
   (4) 5025

3. Find the value of 36 – (6 x 2) ÷ 4 - 2.

   (1) 12
   (2) 13
   (3) 31
   (4) 4

4. Express 30 cm as a percentage of 120 cm.

   (1) 15%
   (2) 25%
   (3) 30%
   (4) 50%

5. How many sixths are there in $4\frac{2}{3}$?

   (1) 8
   (2) 14
   (3) 26
   (4) 28

6. Which of the following is the same as 2050 g?

(1) 2 kg 5 g
(2) 2 kg 50 g
(3) 20 kg 5 g
(4) 20 kg 50 g

7. There are 200 red and blue balls. 60% of the balls are red.
How many balls are red?

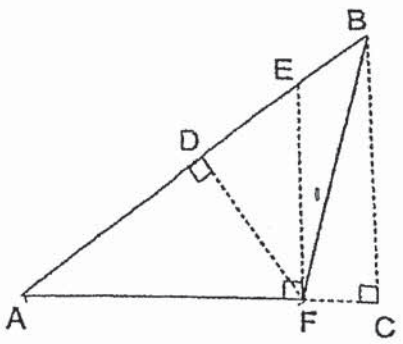
(1) 30
(2) 80
(3) 120
(4) 140

8. A ribbon 10 m long is cut into 8 pieces. How long is each small piece of ribbon?

(1) 0.8 m
(2) 1.25 m
(3) 12.5 cm
(4) 800 cm

9. Given that the base of triangle ABF is AF, which of the following is the corresponding height?

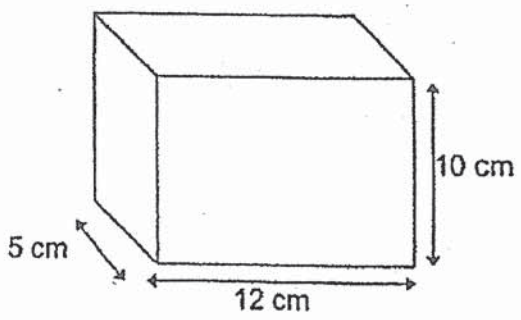
(1) BC
(2) BF
(3) DF
(4) EF



10. There are 24 boys and 16 girls in the class. What is the ratio of the number of boys to the total number of students in class?

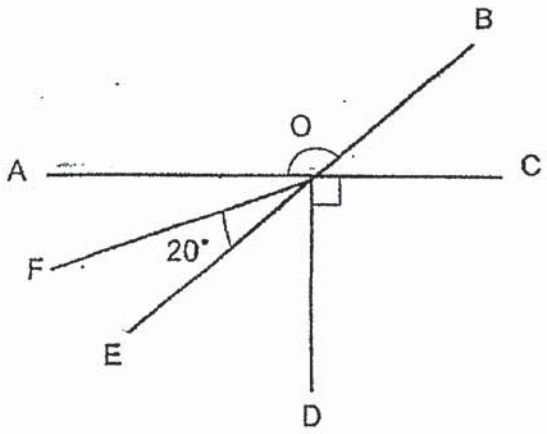
(1) 2 : 3
(2) 3 : 2
(3) 3 : 5
(4) 2 : 5

11. What is the maximum number of 2-cm cubes you can put in the cuboid below?



(1) 60
(2) 75
(3) 300
(4) 600

12. In the diagram below, not drawn to scale, lines AOC and EOB are straight lines. $\angle AOF = \angle FOE$. Find $\angle AOB$.



(1) 70°
(2) 130°
(3) 140°
(4) 160°

13. Arrange the following fractions in descending order.

$$\frac{3}{11} \ , \ \frac{1}{3} \ , \ \frac{3}{10}$$

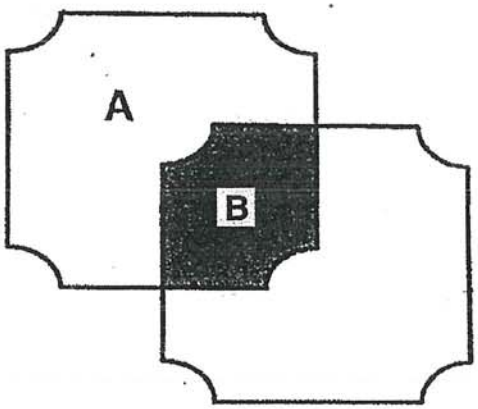
(1) $\frac{1}{3}, \frac{3}{10}, \frac{3}{11}$

(2) $\frac{3}{10}, \frac{3}{11}, \frac{1}{3}$

(3) $\frac{3}{11}, \frac{1}{3}, \frac{3}{10}$

(4) $\frac{3}{11}, \frac{3}{10}, \frac{1}{3}$

14 Two identical shapes were overlapped to form the figure below. The unshaded area A is 5 times that of shaded area B. What is the ratio of the area of the shaded part to the area of the whole figure?



(1) 1 : 9
(2) 1 : 10
(3) 1 : 11
(4) 1 : 12

15. There are 3 times as many pens as erasers.
The ratio of the number of erasers to the number of rulers is 3 : 2.
There are 28 more pens than rulers.
How many pens are there?

(1) 8
(2) 36
(3) 56
(4) 84

End of Booklet A

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 5 million, twenty-five thousand, three hundred and two in numerals.

Ans: _____

17. $4\frac{1}{3} - 3\frac{1}{2} =$ ☐

Ans: _____

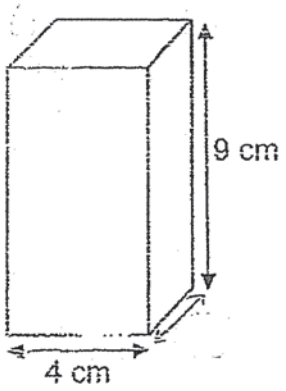
18. Mr Lee sold 48, 50, and 46 egg tarts on Monday, Tuesday and Wednesday respectively. He did not sell any eggs on Thursday. What is the average number of egg tarts he sold from Monday to Thursday?

Ans: _____

/3

Do not write in this column

19. The cuboid below has a square base of 4 cm and length of 9 cm. Find its volume.



Ans: _____ cm^3

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20. Express $2\frac{7}{9}$ as a decimal, rounded off to the nearest 2 decimal places.

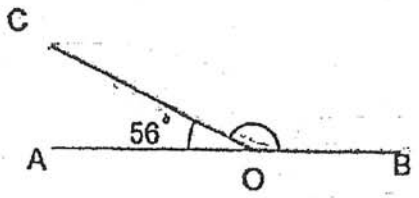
Ans: _____

2

Questions **21** to **30** carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. **(20 marks)**

Do not write in this column

21. The figure below is not drawn to scale. AOB is a straight line. Find ∠BOC.



Ans: _____ °

22. (a) 2430 cm = _____ m

(b) 5.035 l = _____ l _____ ml

23. A number with 2 decimal places, when rounded off to 1 decimal place is 9.4.
(a) What is the smallest possible value of that number?
(b) What is the largest possible value of that number?

Ans: (a) _____

(b) _____

6

24. Mr Tay deposited $8000 in a bank for a year at an annual interest rate of 2%. How much money did he have in the bank in total at the end of 1 year?

Ans: $ _____

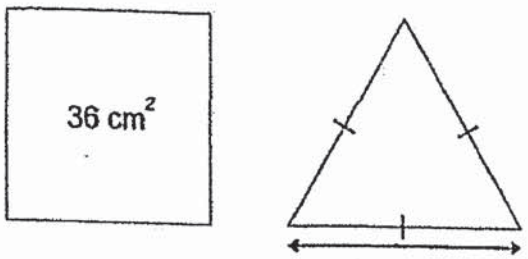
25. $\frac{1}{3}$ of Damien's money is the same as $\frac{4}{5}$ of Philip's money. If Damien has $21 more than Philip, how much money do they have altogether?

Ans: $ _____

4

26. A piece of wire is used to form a square with an area of 36 cm^2. The same piece of wire was then reshaped to form a triangle with 3 equal sides as shown below. What is the length of 1 side of the triangle?

Do not write in this column



Ans: _____ cm

27. A toy car takes 12 minutes to travel 3 rounds around a track. How long will it take to travel 5 rounds?

Ans: _____ min

4

28. Belinda packed 25 cookies in each tub and sold it for $20. How many cookies did she pack if she earned $300?

Ans: _____

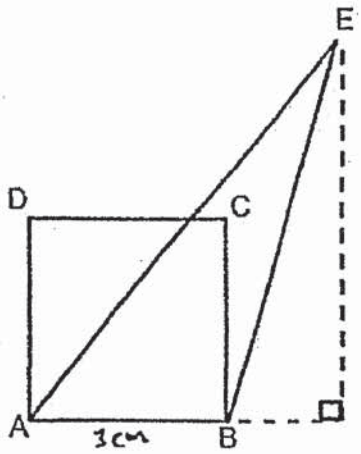
29. Auntie Annie bought 3 kg of flour. She used $\frac{1}{2}$ of the flour to bake some cookies and $\frac{1}{4}$ kg to make a cheesecake. How much flour would she have left?

Ans: _____ kg

4

Do not write in this column

30. The figure below, not drawn to scale, shows a square overlapping a triangle. Given that the length of the square is 9 cm, and the base of the triangle is $\frac{3}{4}$ the height of the triangle, find the area of the triangle.



Ans: _____ cm^2

End of Booklet B

2

AT / ELAU / GAL / LYI / WSW

SINGAPORE CHINESE GIRLS' SCHOOL

SECOND SEMESTRAL ASSESSMENT 2020

PRIMARY 5

MATHEMATICS

PAPER 2

Name : _____ ( )

Class : Primary 5 SY/CIG/SE/P

28 October 2020

	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.

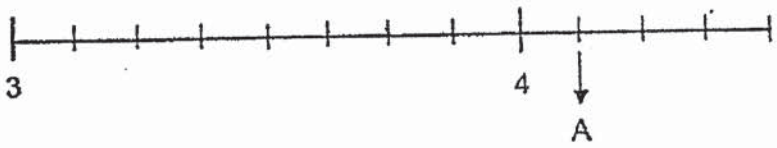
Questions 1 to 5 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the space provided. For questions which require units, give your answers in the units stated. **(10 marks)**

Do not write in this column

1. Each pen costs $1.35 and 5 books cost $2.40.
How much do 10 pens and 10 books cost?

Ans: $ _____

2. Find the value of A.



Ans: _____

4

3. Magdalene earns $6750 every month. She saves $2160 and spends the rest. What percentage of her salary did she spend?

Ans: _____ %

4. Observe the pattern below.

1 , 2 , 0 , 1 , 1 , 2 , 0 , 1, 1, 2 , ...

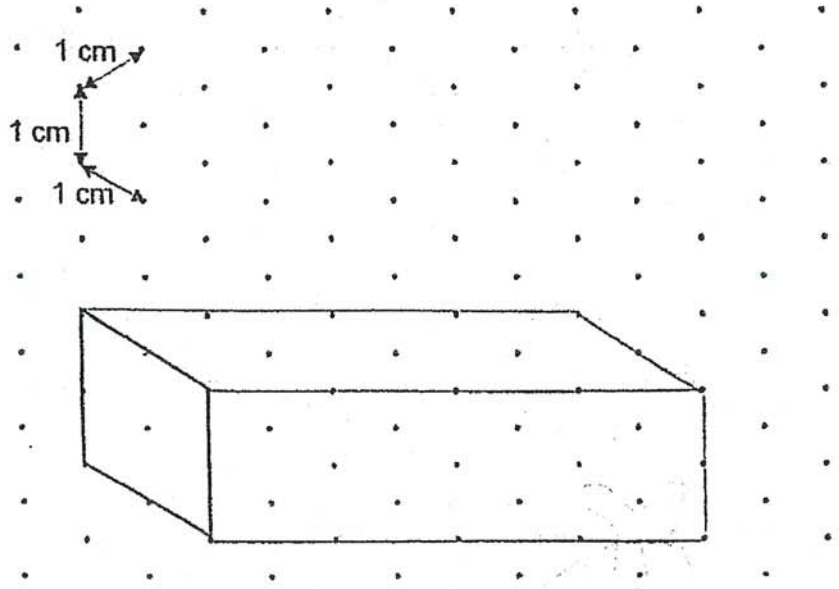
Find the 95th number in the pattern.

Ans:

4

5. Complete the drawing below to show a cuboid with a volume of 32 cm^3. A side of the cuboid has been drawn for you.

Do not write in this column



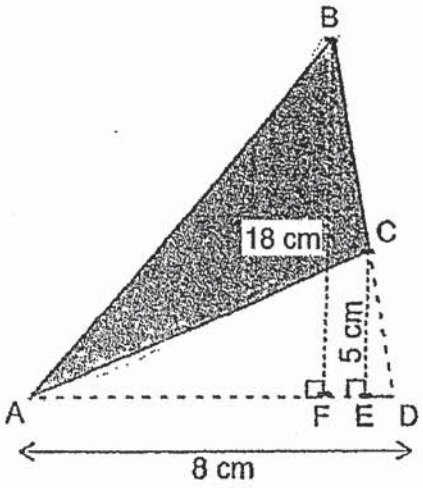
2

For questions 6 to 17, show your working clearly in the space below each question and write your answers in the spaces provided. The number of marks awarded is shown in brackets [ ] at the end of each question or part-question. (45 marks)

6. The average amount of money Andy, Bill and Chandra had was $35.50. The average amount of money Andy, Bill, Chandra and Dave had was $40. How much money did Dave have?

Ans: _____ [3]

7. The figure below, not drawn to scale, shows Triangle ABC. If AD = 8 cm, BF = 18 cm and CE = 5 cm, find the area of Triangle ABC.



Ans: _____ [3]

6

8. Bala and Raja had some rubber bands in the ratio of 11 : 9 . Their mother gave each of them 72 rubber bands. In the end, the ratio of the number of rubber bands Bala had to the number of rubber bands Raja had became 10 : 9. How many rubber bands did Bala have at first?

Do not write in this column

Ans: _____ [3]

9. Louis worked as a Safe Distancing Ambassador and was paid at a rate of $8.50 per hour. He gets paid an extra $10 per day if he works on a Saturday or Sunday. How much would he have earned if he works 7 hours a day from Monday to the following Monday?

Ans: _____ [3]

6

10. Jamie has 53 blue pens and 36 red pens. She packed 3 blue pens and 4 red pens into a set to give as gifts. How many pens will there be left after she packed the maximum number of gift sets?

Ans: _____ [3]

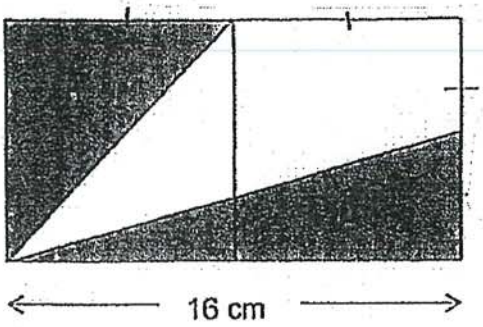
11. The price of a TV set after 30% discount was $3150.
(a) Mr Cheng paid 7% GST of the discounted price. How much GST did Mr Cheng pay?
(b) What was the original price of the TV set?

Ans: (a) _____ [2]
(b) _____ [2]

7

12: The figure below is made up of 2 squares. Find the area of the unshaded part.

Do not write in this column



Ans: _____ [4]

4

13. Philip and had twice as much money as Matthew. If Philip gives $45 to Matthew, the ratio of the amount of money Philip has to the amount of money Matthew has will be 4 : 5. How much money does Philip need to give Matthew such that they would have the same amount of money?

Ans: _____ [4]

4

14. Xenia had 96 sweets and chocolates in the ratio of 5 : 3 respectively. She then gave away some sweets and bought some chocolates in the ratio of 2 : 1. In the end, she realised that she had equal number of sweets and chocolates. How many sweets and chocolates did Xenia have in the end?

Do not write in this column

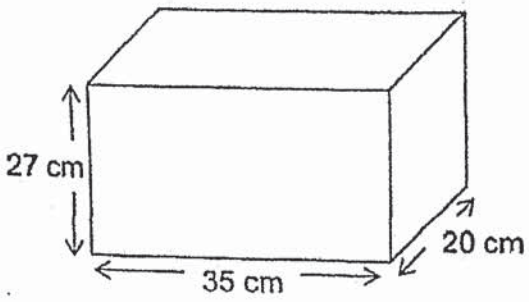
Ans: _____ [5]

5

15. The tank below, not drawn to scale, is $\frac{2}{3}$ filled with water. Some water was poured out and the height of the water in the tank became 7 cm.

(a) Find the volume of water poured out of the tank.

(b) What is the ratio of the amount of water in the tank in the end to the amount of water poured out to the original amount of water in the tank. Leave your answer in the simplest form.



Ans: (a) _____ [2]

(b) _____ [2]

4

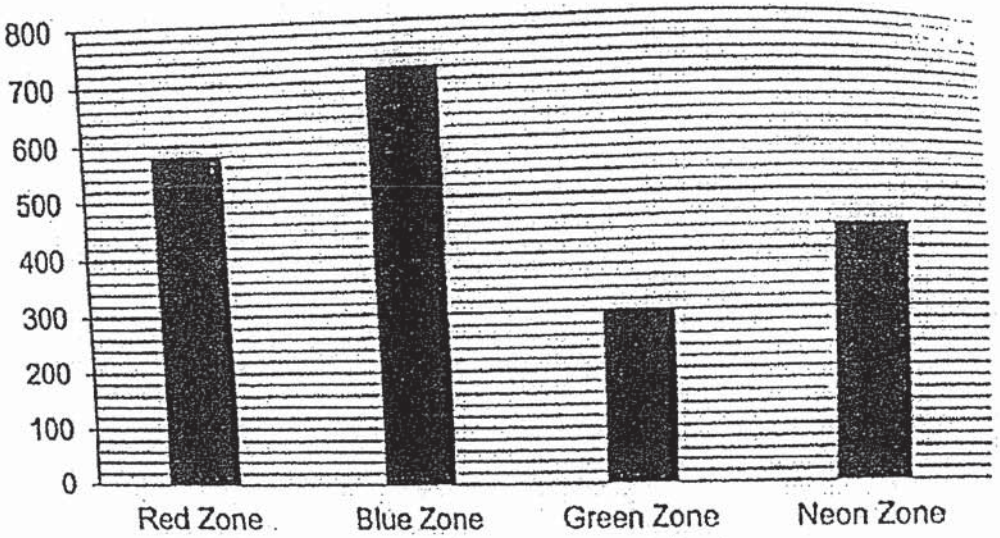
16. At a funfair, Adam threw 10 darts. For every shot that hits the target, Adam earns 50 points and for every shot he misses, he loses 15 points. He earned 240 points in total. How many darts hit the target?

Do not write in this column

Ans: _____ [4]

4

17. Banny Bunch was holding a concert in Singapore and the graph below recorded the sale of tickets for the show.



Zone	Red	Blue	Green	Neon
Price of 1 ticket	$98	$138	$188	$268

(a) The stadium that held the concert was 85% filled. What is the capacity of the stadium?

(b) 10% of the Blue Zone tickets were bought at a 20% early bird discount. What was the total amount of money collected from the sale of Blue Zone tickets?

Ans: (a) _____ [2]

(b) _____ [3]

End of Paper 2

~ Please check your work thoroughly. ~

5

SINGAPORE CHINESE GIRLS' SCHOOL
PRIMARY 5 MATHEMATICS
2020 SA2
Answer Key for students

Paper 1

Booklet A

Question 1 to 10 carry 1 mark each.
Question 11 to 15 carry 2 marks each.

1	**4**	4	**2**	7	**3**	10	**3**	13	**1**
2	**3**	5	**4**	8	**2**	11	**1**	14	**3**
3	**3**	6	**2**	9	**1**	12	**3**	15	**2**

Booklet B

Question 16 to 30 carry 1 mark each.
Question 21 to 30 carry 2 marks each.

16	5 025 302	**25**	$\frac{1}{3}D = \frac{4}{5}P$ $\frac{4}{12}D = \frac{4}{5}P$ 7u → \$21 17u → \$21 ÷ 7 x 17 = \$51
17	$\frac{5}{6}$	**26**	$\sqrt{36} = 6$ 6 x 4 = 24 24 ÷ 3 = 8
18	36	**27**	5 rounds → 12 ÷ 3 x 5 = 20 min
19	144 cm^3	**28**	\$300 ÷ \$20 = 15 15 x 25 = 375
20	2.78	**29**	$\frac{1}{2}$ x 3 = $1\frac{1}{2}$ kg $3 - 1\frac{1}{2} - \frac{1}{4} = 1\frac{1}{4}$ kg
21	180° - 56° = 124°	**30**	3u → 9 1u → 9 ÷ 3 = 3 4u → 4 x 3 = 12 Area of triangle --- $\frac{1}{2}$ x 9 x 12 = 54 cm^2
22	(a) 24.3 m (b) 5 *l* 35 *ml*		
23	(a) 9.35 (b) 9.44		
24	Interest → \$8000 ÷ 100 x 2 = \$160 Total - \$8000 + \$160 = \$8160		

Paper 2 : 55 marks

Q1)
10 pens → \$1.35 x 10 = \$13.50
10 books → \$2.40 x 2 = \$4.80
Total → \$13.50 + \$4.80 = \$18.30

Q2)
4 gaps → 0.5
1 gap → 0.5 ÷ 4 = 0.125
Ans → 4.125

OR

1 gap → 1 ÷ 8 = $\frac{1}{8}$

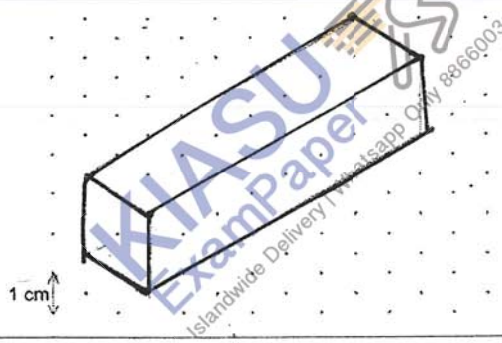
Ans → $4\frac{1}{8}$

Q3)
Spent → \$6750 - \$2160 = \$4590
Percentage spent → $\frac{4590}{6750} \times 100\%$ = 68%

Alternative solution
Percentage saved → $\frac{2160}{6750} \times 100\%$ = 32%
Percentage spent → 100% - 32% = 68%

Q4)
95÷4 =23 R3 Ans: 0

Q5)



Q6)
3 x \$35.50 = \$106.50
4 x \$40 = \$160
\$160 - \$106.50 =\$53.50

Q7)
ABC → $\frac{1}{2} \times 18 \times 8 = 72$

ADC → $\frac{1}{2} \times 8 \times 5 = 20$

ABD → 72 – 20 = 52 cm^2

Q8)

B : R	Diff	B : R	Diff
11 : 9	2	10 : 9	1
		20 : 18	2

9u → 72
1u → 72 ÷ 9 = 8
Bala at first, 11u → 11 x 8 = 88

Q9)

Total no. of days, 8 days → 8 x 7 x \$8.50 = \$476
Total amt → \$476 + \$20 = \$496

Q10)

53 ÷ 3 ≈ 17   36 ÷ 4 = 9
Gift sets → 9 x (3 + 4) = 63
Left → 53 + 36 – 63 = 26

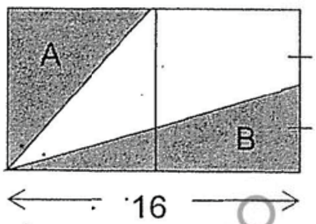
Q11)

(a) GST → $\frac{3150}{100} \times 7$ = \$220.50

(b) Original price → $\frac{3150}{70} \times 100$

= \$4500

Q12)



Area of 2 sq → 8 x 8 x 2 = 128
Area of Triangle A → 8 x 8 ÷ 2 = 32
Area of Triangle B → 16 x 4 ÷ 2 = 32
Unshaded → 128 – 32 – 32 = 64 cm^2

Q13)

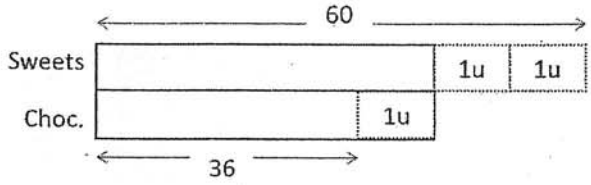
P : M	Total	P : M	Total
2 : 1	3	4 : 5	9
6 : 3	9		

-2u

2u → \$45
1u → \$45 ÷ 2 = \$22.50
9u → \$22.50 x 9 = \$202.50
P, at first, 6u → \$22.50 x 6 = \$135
Equal amt → \$202.50 ÷ 2 = \$101.25
Give Matt → \$135 - \$101.25 = \$33.75

Q14)

Sweets → 96÷ 5 x 5 = 60
Choc → 96 ÷5 x 3 = 36



3u → 60 – 36 = 24
1u → 24 ÷ 3 = 8
36 + 8 = 44
44 x 2 = 88

Q15)

(a) Height of water in tank → $\frac{2}{3} \times 27 = 18cm$
18 – 7 = 11 cm
Vol of water out → 35 x 20 x 11 = 7700 cm^3 (or ml)

(b) Height of water in tank → 18 cm
Final : Out : Orig
7 : 11 : 18

OR
4900 : 7700 : 12600
7 : 11 : 18

Q16)

Assumption
10 x 50 = 500
500 – 240 = 260
260 ÷ 65 = 4
Hits → 10 – 4 = 6

Q17)

(a) 580 + 720 + 440 + 300 = 2040

Capacity, 100% → $\frac{2040}{85} \times 100$ = **2400**

(b) No. of discounted tickets→ $\frac{10}{100} \times 720 = 72$

Cost of 1 discounted ticket → $\frac{80}{100} \times 138 = \$110.40$
Sum for discounted tickets → 72 x $110.40
= $7948.80

Normal tickets → 720 – 72 = 648
Sum for normal tickets → 648 x $138
= $89 424
Total → $7948.80 + $89 424 = **$97372.80**

END