Anglo-Chinese School (Primary)

MID-YEAR EXAMINATION 2015
MATHEMATICS
PAPER 1 (BOOKLET A)
PRIMARY FIVE

Name: _____ ( ) Class: Primary 5 ___

Date: 7 May 2015 Duration of Booklets A & B: 50 minutes

INSTRUCTIONS TO CANDIDATES

1. This question paper consists of 7 printed pages, including the cover page.
2. Do not turn this page until you are told to do so.
3. Follow all instructions carefully.
4. Shade your answers on the Optical Answer Sheet (OAS) provided.
5. You are not allowed to use a calculator.

Questions **1** to **10** carry **1** mark each. Question **11** to **15** carry 2 marks each. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet (OAS). (20 marks)

1. Which one of the following has the digit 6 in the hundred thousands place?

   1) 2 304 689
   2) 3 896 027
   3) 4 369 480
   4) 5 647 093

2. The number of tourists who visited the Singapore Zoological Gardens last month was 156 000 when rounded off to the nearest 1 000 visitors. Which one of the following is the possible number of visitors at the zoo?

   1) 155 368
   2) 155 568
   3) 156 538
   4) 156 836

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

   1) $\frac{4}{9}$
   2) $\frac{1}{20}$
   3) $\frac{4}{20}$
   4) $\frac{19}{20}$

4. Find the value of $\frac{3}{5} \times 12$.

1) $\frac{3}{60}$

2) $\frac{36}{60}$

3) $\frac{4}{5}$

4) $\frac{36}{5}$

5. $2 : 9 = \square : 54$

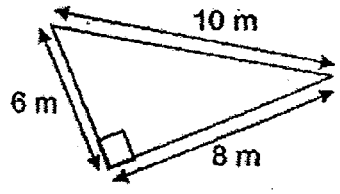
What is the missing number in the box?

1) 12
2) 14
3) 45
4) 47

6. Find the value of $12 + 12 \div 3 \times 4$.

1) 2
2) 13
3) 28
4) 32

7. What is the area of the triangle shown below?



1) 48 m^2
2) 40 m^2
3) 30 m^2
4) 24 m^2

8. A water tank has 125 litres of water. How many 250-ml bottles of water can be fully filled with the water in the tank?

1) 5
2) 50
3) 500
4) 5 000

9. After a roll of wire was used to make 3 identical squares of sides 6 cm, there were 27 cm of wire left. How long was the roll of wire at first?

1) 45 cm
2) 72 cm
3) 99 cm
4) 135 cm

10. Bob has three times as many marbles as Tim. How many marbles must Bob give Tim so that each of them will have 192 marbles?

1) 48
2) 96
3) 144
4) 192

11. $\frac{2}{3}$ of the area of a triangle is the same as $\frac{1}{2}$ of the area of a square. Express the area of the triangle as a fraction of the area of the square.

1) $\frac{2}{3}$
2) $\frac{3}{4}$
3) $1\frac{1}{2}$
4) $1\frac{1}{3}$

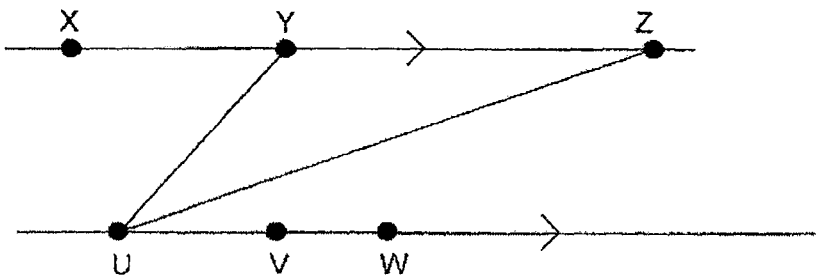
12. Lewis has twice as many apples as Samuel and three times as many apples as Jenny. Find the ratio of the number of apples Lewis has to the total number of apples Samuel and Jenny has.

1) 5 : 6
2) 6 : 5
3) 6 : 11
4) 11 : 6

13. A ribbon was cut into two pieces in the ratio of 2 : 9. The shorter piece was 8 m long. Ann and Susan shared the longer piece in the ratio of 4 : 5. What length of ribbon did Ann receive?

1) 36 m
2) 20 m
3) 16 m
4) 10 m

14. Which 3 points U, V, W, X, Y and Z would form another triangle of the same area as triangle UYZ?



1) Triangle XZW
2) Triangle VYZ
3) Triangle UVY
4) Triangle UXY

15. The table below shows the parking charges of XY Building. Mr Soh parked his car from 2.30 p.m. to 5.45 p.m. How much did Mr Soh pay for his parking?

PARKING CHARGES	
For the first hour	\$1.20
For every additional $\frac{1}{2}$ hour or part thereof	\$0.50

1) \$2.70
2) \$3.20
3) \$3.70
4) \$4.10

Anglo-Chinese School (Primary)

MID-YEAR EXAMINATION 2015
MATHEMATICS
PAPER 1 (BOOKLET B)
PRIMARY FIVE

Name: Class: Primary 5 ___

Date: 7 May 2015 Duration of Paper Booklets A & B: 50 minutes

Parent's/Guardian's signature

INSTRUCTIONS TO CANDIDATES

1. This booklet contains [illegible] questions on [illegible] pages.
2. Do not open this booklet until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. You are not allowed to use a calculator.

Paper 1 **Booklet A. Multiple-Choice Questions**	**20**	
Paper 1 **Booklet B. Short Answers: Part 1**	**10**	
Paper 1 **Booklet B. Short Answers: Part 2**	**10**	
Total Marks	**40**	

Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. Give your answers to the units stated and to its simplest form whenever necessary. (10 marks)

16. The total mass of 900 identical exercise books is 121 500 g. What is the mass of each exercise book?

Answer: _____ g

17. $\frac{1}{3}$ of the flowers in the garden were roses. $\frac{5}{8}$ of the roses were pink. What fraction of the flowers were pink roses?

Answer: _____

18. When a number is divided by 6, the quotient is 472. What is the quotient when the same number is divided by 8?

Answer: _____

19. The age of three brothers are in the ratio of 3 : 2 : 8. If the age of the oldest brother is 24 years old, find the total age of the three brothers.

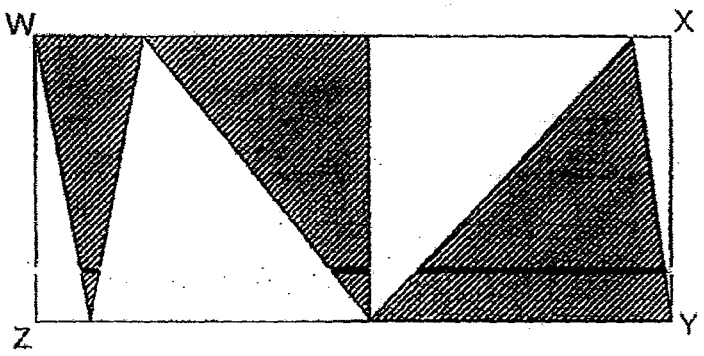
Answer: _____

20. Arrange the following fractions in ascending order.

$$\frac{2}{3}, \quad \frac{9}{10}, \quad \frac{3}{5}$$

Answer: _____, _____, _____

21. The figure WXYZ below is a rectangle. Find the fraction of the rectangle that is unshaded.



Answer: _____

22. The usual price for 2 bottles of soft drinks is $3.50. At a sale, 2 bottles of the same soft drinks are sold for $2.70. How much will George save if he buys 10 bottles of soft drinks at the sale?

Answer: $ _____

23. Mr Ahmad bought some sweets for his daughters. If he gave them 9 sweets each, he would be short of 3 sweets. If he gave them 7 sweets each, he would have 5 sweets left. Find the smallest possible number of sweets Mr Ahmad bought.

Answer: _____

24. The mass of a honeydew is $\frac{4}{5}$ that of a watermelon. The honeydew is 320 g lighter than the watermelon. Find the total mass of the honeydew and the watermelon.

Answer: _____ g

25. A pail is $\frac{1}{5}$ full. 80 litres of water is needed to fill it up completely. What is the capacity of the pail?

Answer: _____ ℓ

Questions 26 to 30 carry 2 marks each. Show all mathematical statements clearly in the space below each question and write your answers in the spaces provided. Give your answers to the units stated and to its simplest form whenever necessary. (10 marks)

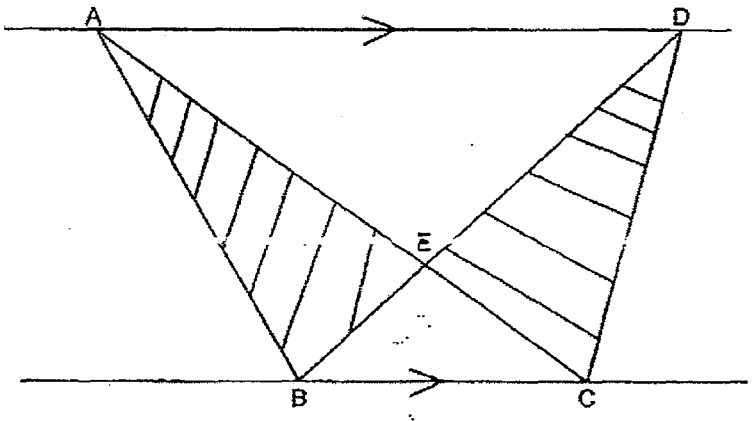
26. The number of ten cent coins that Jeremy and Samantha have are in the ratio 4 : 9. If the total value of Jeremy's ten cent coins is $2 less than the total value of Samantha's, how many ten cent coins does Samantha have?

Answer: _____

27. Mr Shah is 42 years old and his son is 14 years old. How many years later will Mr Shah's son be half of his age?

Answer: _____

28. The figure below, not drawn to scale, is made up of triangles ABC and BCD, which is positioned between two parallel lines. The area of triangle ABC is 590 cm^2 and the area of triangle BEC is 150 cm^2. Find the total area of the shaded regions.

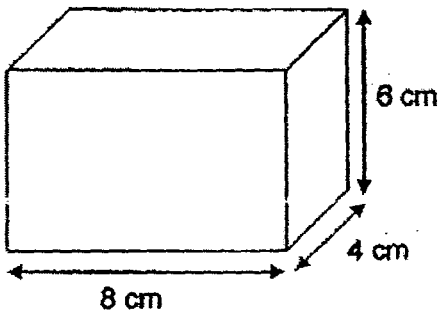


Answer: _____ cm^2

29. Ronald read $\frac{1}{4}$ of a book on Monday, $\frac{1}{3}$ of the book on Tuesday and $\frac{1}{6}$ of the book on Wednesday. He read the final 40 pages on Thursday. How many pages were there in the book?

Answer: _____

30. Michael has a wooden box measuring 8 cm by 4 cm by 6 cm. He wants to store the 2-cm cubes into the box. What is the maximum number of 2-cm cubes that can be stored in this wooden box?



Answer: _____

Anglo-Chinese School (Primary)

MID-YEAR EXAMINATION 2015
MATHEMATICS
PAPER 2
PRIMARY FIVE

Name:

Class: Primary 5 ___

Date: 7 May 2015

Duration of Paper 2: 1 hour 40 minutes

_____
Parent's/Guardian's signature

INSTRUCTIONS TO CANDIDATES

1. This question paper consists of 15 printed pages, including the cover page.
2. Do not turn this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. You are allowed to use a calculator.

Paper 2 **Section A. Short Answers**	**10**	
Paper 2 **Section B. Problem Sums**	**50**	
Total Marks	**60**	

Questions 1 to 5 carry 2 marks each. Show your mathematical statements clearly in the space provided for each question and write your answers in the spaces provided. Give your answers to the units stated and to its simplest form whenever necessary. (10 marks)

1. Charlie had $\frac{5}{6}$ ℓ of red paint. He used $\frac{1}{3}$ of it. How much paint had he left? Give your answer in the simplest form.

Answer: _____ ℓ

2. Ali spent $\frac{1}{4}$ of his money on a bookshelf and $\frac{2}{7}$ of the remainder on a chair. He had $300 left. How much money did he have at first?

Answer: $ _____

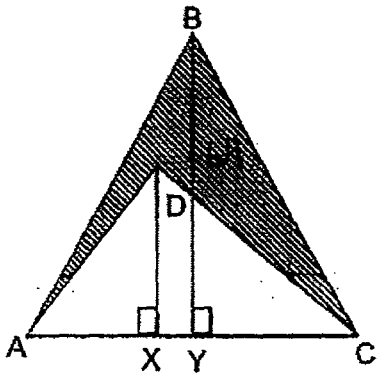
3. Ravi and Charmaine shared some sweets in the ratio 9 : 11. After they both gave away 48 sweets each, the ratio of Ravi's sweets to Charmaine's sweets became 5 : 7. How many sweets did they have altogether at first?

Answer: _____

4. Yenny bought 2 mechanical pencils and 3 notebooks for $18.50. Each notebook costs $1.75 more than a mechanical pencil. Find the cost of one such mechanical pencil.

Answer: $ _____

5. In the figure below, not drawn to scale, DX is $\frac{3}{5}$ of BY. If the area of the shaded region ABCD is 64 cm^2. Find the area of triangle ABC.



Answer: _____ cm^2

For questions **6** to **18**, show your steps 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.
The number of marks available is shown in brackets [ ] at the end of each question or part-question. (50 marks)

6. Andrew and Steven shared money to buy a toy. Andrew paid \$25 more than $\frac{1}{6}$ of the toy's price and Steven paid \$35. How much did the toy cost?

Answer: _____ [3]

7. Benny, Charles and David shared some playing cards. The ratio of Benny's share to Charles' share is 4 : 1 while Benny's share to David's share is 6 : 5. David had 70 more playing cards than Charles. How many playing cards did they have altogether?

Answer : _____ [3]

8. Mary and Samantha each had the same number of stamps. Mary gave away $\frac{5}{7}$ of her stamps and Samantha gave away $\frac{2}{5}$ of her stamps. Samantha had 154 more stamps than Mary in the end. How many stamps did Mary have at first?

Answer: _____ [3]

9. There are 180 cows and ducks on a farm. The cows and ducks have a total of 600 legs. How many ducks are there on the farm?

Answer: _____ [3]

10. Rachel, Beatrice and Sylvia had 490 ribbons altogether. Rachel and Beatrice had 90 ribbons more than Sylvia. Sylvia and Beatrice had 130 ribbons more than Rachel. How many ribbons did Beatrice have?

Answer: _____ [3]

11. Raja bought 4 apples and 5 pears. Devi bought 5 apples and 4 pears. Devi paid 20¢ more than Raja. If Raja paid $4.40, how much did 4 apples cost?

Answer: _____ [4]

12. The ratio of the number of sweets Alan had to the number of sweets Giles had was 5 : 2. Giles bought another 36 sweets but Alan still had 60 more sweets than Giles.

Find the ratio of Alan's sweets to Giles' sweets in the end.

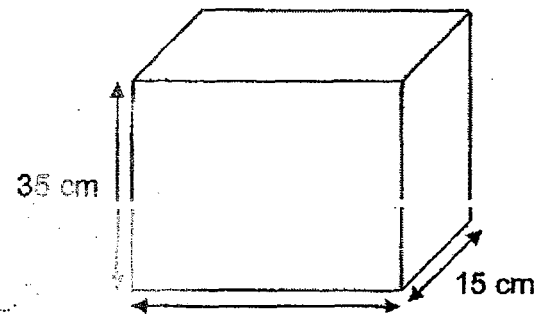
(Give your answer in its simplest form)

Answer : _____ [4]

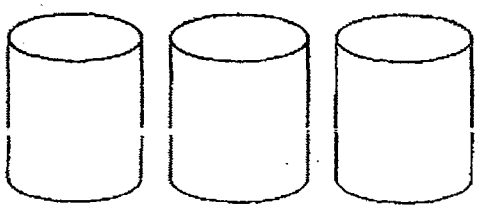
13. Adrian bought a refrigerator for $560. He then used $\frac{5}{8}$ of the remaining money on a television. He then had $\frac{1}{5}$ of his money left. How much did he have at first?

Answer : _____ [4]

14. Omar poured 3 pails of water into Tank X measuring 45 cm by 15 cm by 35 cm. Each pail had a capacity of 5 litres. How much more water does he need to fill the tank to a depth of 29 cm? Give your answer in litres and millilitres.

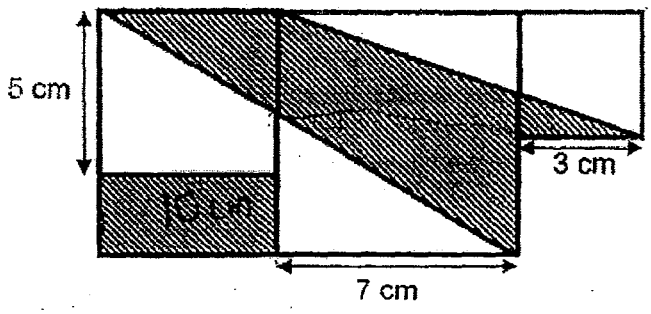


Tank X


Pail

Answer: _____ [4]

15. In the figure below, not drawn to scale, there are 3 squares of side 5 cm, 7 cm and 3 cm and a rectangle. Find the shaded area.



Answer : _____ [4]

16. Mindy and Sandy each received some money from their father. Mindy spent $\frac{3}{7}$ of her money on textbooks and Sandy spent $\frac{7}{11}$ of her money on food. They both had an equal amount of money left in the end.
If the textbooks cost a total of $21, how much money did they receive altogether from their father?

Answer: _____ [5]

17. Mrs Lee had 144 red, blue and green balls in a basket. After she added 48 red balls to the basket, the ratio of the number of red balls to the number of blue balls to the number of green balls became 5 : 3 : 4.

(a) What was the ratio of the number of red balls to the number of blue balls to the number of green balls at first? (Give your answer in its simplest form)

(b) Mrs Lee then bought some yellow balls. The ratio of the number of red balls to the number of yellow balls became 4 : 5.
How many balls were there altogether in the end?

Answer: (a) _____ [3]

(b) _____ [2]

18. A packet of chocolates cost $4.

3 packets of chocolates are sold for $10.

For every 70 packets that Gail buys, a discount of $8 is given.

Find the minimum cost for 200 packets of chocolates.

Answer: _____ [5]

End of Paper 2

SCHOOL : ANGLO-CHINESE SCHOOL (PRIMARY)
LEVEL : PRIMARY 5
SUBJECT : MATH
TERM : SA1

PAPER 1 BOOKLET A

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

Q 11	Q12	Q13	Q14	Q15
2	2	3	2	3

PAPER 1 BOOKLET B

Q16) 135
Q17) 5/24
Q18) 354
Q19) 39
Q20) 3/5,2/3,9/10
Q21) ½
Q22) $4
Q23) 33
Q24) 2880 g
Q25) 100
Q26) 2÷0.1=20
20÷5 = 4
4 x 9 = 36

Q27) 42 - 14 = 28
28 x 2 = 56
56 – 42 = 14
Ans : 14 years later

Q28) 590 – 150 = 440
440 x 2 = 880
Ans : 880 cm^3

Q29) $\frac{1}{4} = \frac{3}{12}$

$\frac{1}{3} = \frac{4}{12}$

$\frac{1}{6} = \frac{2}{12}$

$\frac{3}{12} + \frac{4}{12} + \frac{2}{12} = \frac{8}{12}$

$= \frac{2}{3}$

$1 - \frac{2}{3} = \frac{1}{3}$

$\frac{1}{3} \rightarrow 40$

$\frac{3}{3} \rightarrow 40 \times 3 = 120$

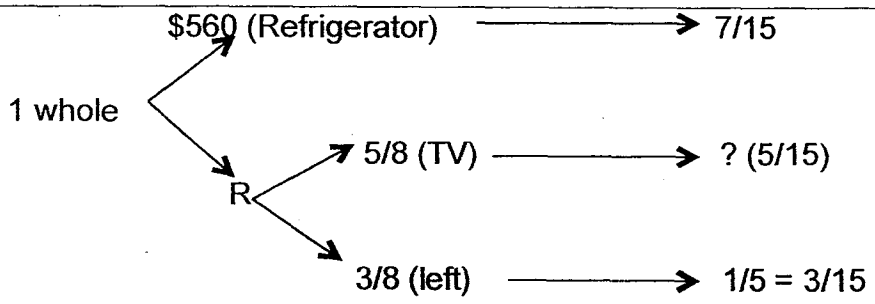
Ans : 120 pages

Q30) 8 ÷ 2 = 4
4 ÷ 2 = 2
6 ÷ 2 = 3
Max No. of 2-cm cubes → 4 x 2 x 3 = 24

PAPER 2

Q1)	$\frac{1}{3} \times \frac{5}{6} = \frac{5}{18}$ $\frac{5}{6} = \frac{15}{18}$ $\frac{15}{18} - \frac{5}{18} = \frac{10}{18}$ $= \frac{5}{9}$ $\frac{5}{9}$ Ans : $\frac{5}{9}$
Q2)	Remainder → $1 - \frac{1}{4} = \frac{3}{4}$ Spent On Chair → $\frac{2}{7} \times \frac{3}{4} = \frac{3}{14}$ Bookshelf + Chair → $\frac{1}{4} + \frac{3}{14} = \frac{13}{28}$ Left → 28 – 13 = 15 15u → \$300 1u → \$20 28u → \$20 x 28 = <u>\$560</u>
Q3)	R : C Difference 9 : 11 2 -48 : -48 5 : 7 2 9 – 5 = 4 48 ÷ 4 = 12 Total → 9 + 11 = 20 20 x 12 = <u>240</u>
Q4)	\$1.75 x 3 = \$5.25 \$18.50 - \$5.25 = \$13.25

	$ 13.25 ÷ 5 = $2.65
Q5)	5 – 3 = 2 64 ÷ 2 = 32 32 x 5 = 160 Ans : 160 cm^3
Q6)	5u → $25 + $35 = $60 1u → 60 ÷ 5 = $12 6u → $12 x 6 = $72 Ans : $72
Q7)	B : C : D : Total 24 : 6 : 20 : 50 20 – 6 = 14 14u → 70 1u → 5 50u → 5 x 50 = 250
Q8)	1 – 5/7 = 2/7 1 – 2/5 = 3/5 3/5 – 2/7 = 11/35 11u →154 1u → 154 ÷ 11 = 14 Mary (at first) → 7/7 = 35/35 35u → 14 x 35 = 490
Q9)	180 x 4 = 720 720 – 600 = 120 4 – 2 = 2 120 ÷ 2 = 60 Ans : 60 ducks

Q10)	490 – 90 = 400 S → 400 ÷ 2 = 200 490 – 130 = 360 360 ÷ 2 = 180 B → 490 – 200 – 180 = <u>110</u>
Q11)	$4.40 + $0.20 = $4.60 $0.20 x 5 = $1.00 $4.60 - $1.00 = $3.60 $3.60 ÷ 9 = $0.40 5 x $0.40 = $2.00 $4.40 - $2.00 = <u>$2.40</u>
Q12)	60 + 36 = 96 96 ÷ 3 = 32 32 x 2 = 64 64 + 36 = 100 100 + 60 = 160 160 : 100 <u>8 : 5</u>
Q13)	 R x 3/8 = 1/5 R = 1/5 ÷ 3/8 = 8/15 TV → 5/8 x 8/15 = 1/3 = 5/15 Refrigerator → 1 – 5/15 – 3/15 = 7/15

	7u → $560 1u → $560 ÷ 7 = $80 15u → $80 x 15 = $1200 Ans : $1200
Q14)	Vol → 45 x 15 x 29 = 19575 Pails →3 x 5 = 15 = 15000 cm^3 19575 – 15000 = 4575 Ans : 4574
Q15)	5 + 7 = 12 12 x 7 = 84 3 x 3 = 9 Total Area of Fig → 84 + 9 = 93 84 ÷ 2 = 42 Shaded rect. → 2 x 5 = 10 42 – 10 = 32 7 + 3 = 10 ½ x 10 x 3 = 15 Total shaded → 93 – 32 - 15 = 46 Ans : 46 cm^2
Q16)	M → 3u 3u → $21 1u → $7 $7 x 4 = $28 $7 x 7 → $49 $28 ÷ 4 = $7

	11u → $7 x 11 = $77 Total → $77 + $49 = $126 Ans : $126
Q17)	R : B : G : TOTAL(R+B+G) 5 : 3 : 4 : 12 20 : 12 : 16 : 48 12u → 144 + 48 = 192 1u → 192 ÷ 12 = 16 At First R → 16 x 5 = 32 B → 16 x 3 = 48 G → 16 x 4 = 64 (i) R : B : G 32 : 48 : 64 2 : 3 : 4 (Ans) (ii) Y : R : B : G : TOTAL(Y+R+B+G) 5 : 3 : 4 : 5 : 4 25 : 20 : 12 : 16 : 73 Total → 73 x 16 = 1168 (Ans)
Q18)	No. of sets of 3 → 200 ÷ 3 = 66 R 2 No. of sets of 7 → 200 ÷ 70 = 2 R 60 Total discount → 2 x $8 = $16 Total cost → ($10 x 66) + ($4 x 2) - $16 = $652