Part I

1) Fill in the blanks.

    1) $36 : 48 = \boxed{} : 4$

    2) $14 : \boxed{} = 2 : 3$

    3) $5 : 6 = 30 : \boxed{}$

2) Write the ratio between length and breadth of the rectangel.

    30 cm

    50 cm
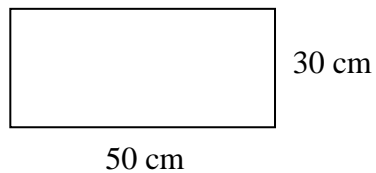
3) Join the ratio in column A to the equivalent ratio in column B.

A	B
4 : 3	2 : 3
10 : 15	16 : 12
3 : 5 : 7	24 : 36
2 : 3	24 : 40 : 56

4) Write two equivalent ratios.

    a) 9 : 6 : 3   b) 8 : 2 : 4

5) Supuni, Nipuni and Kasuni are friends. The ratio of their heights is 4 : 6 : 7. If Supuni's height 135 cm. Calculate the height of Nipuni and Kasuni.

Part II

1) The floor area of the kitchen of a house is $\frac{3}{4}$ the floor area of the sitting room.

    i)   What is the ratio of the area of kitchen and sitting room.

    ii)   What fraction of the total floor area of the kitchen and the sitting room is the difference between the floor areas of these two rooms?
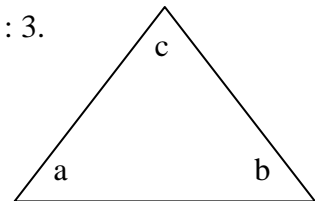
2) Gayan and Damith started a business in the same year. Fill in the blanks in the following table.

Name	Amount invested	Date of investment	Period of investment	Amount x period
Gayan	Rs. 20,000	Jan 01		
Damith	Rs. 25,000	March 01		

3) P started a business on 1st of January by investing Rs. 20000. After 2 months Q joined to the business by investing Rs. 30000. After 4 months R joined to the business by investing Rs. 40,000. Profit from the business for the year was Rs. 65,000.

    i)   Find the ratio of investing money.

    ii)   Who gained more profit.

4) In a certain village Sinhalese, Tamil and Muslims live together. The ratio of Sinhala to Tamil 5 : 3 and the ratio of Tamil to Muslim is 4 : 1.

    i)   Find the ratio of Sinhala to Tamil to Muslims.

    ii)   How many families are there in the village if there are 120 Sinhala families.

5) Ratio of the magnitude of angle a and b is 1 : 2. angle a and c is 2 : 3.

    i)   Build up the ratio between a, b, c
    ii)   Find the magnitude of a, b, c

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