



Grade 10

Mathematics

Unit :10 - Inverse proportions

01) Fill in the blanks.

$$20 : 8 = \square : 2$$

02) Write the following in the simplest form

2 m to 40 cm

03) When a certain amount of money is divided in the ration 3 : 2 small portion is Rs. 8000 . Find the amount of money that is divided.

04) When a certain amount is divided between A and B in the ratio 5 : 3, A received Rs. 8000 more than the amount B received. Find the total amount of money that is divided.

05) It takes 8 men, 7 hours to complete a certain task.

i) Find the total work in man hours.

ii) Due to a power cut only 2 ½ hours worked in first day Find the remaining amount of work to be done.

06) i) A vehicle which travel at the speed of 40 kmh⁻¹ takes 4 ½ hours to travel a certain distance. Find the time taken to travel the same distance at 45 kmh⁻¹

ii) Tube A takes 12 minutes to fill a tank. Tube B takes 8 minutes to fill the same tank. Find the time taken to fill the tank if both tubes are opened.

07) i) 8 men wish to complete a certain task in 10 days. but after 3 days 1 man left the work due to an illness. Find the time taken by others to complete that task.

ii) In an army camp there are foods sufficient for 200 men for 10 days. In the 1st day 50 more man joined with them. Find the number of days the food will be sufficient.