COMPARING QUANTITIES

Q1) Express the ratio in simplest form:
   a) 1m 10cm : 55cm
   b) 2kg 250g : 3kg
   c) 75p : Rs 5

Q2) If the cost of 15 books is Rs 240, find the cost of 39 books.

Q3) The cost of 9kg of rice is Rs 414. How much rice can be bought for Rs 552?

Q4) Express:
   a) 30% as a fraction
   b) 27% as a ratio
   c) 22.5% as a ratio
   d) 100:150 as a percentage
   e) 75% as decimal
   f) 0.465 as a percentage
   g) 13/20 as a percentage

Q5) Find the value of x.
   a) 90% of x is 2700 shirts in a shop.
   b) 33 \(\frac{1}{3}\) % of x is 900 marks.

Q6) Chalk contains 3% carbon, 10% calcium and 12% oxygen. Find the amount of grams
    of each of these substances in 1kg chalk.

Q7) 40% of Ravi’s salary is Rs 800. Find his entire salary.

Q8) Radha’s salary is increased from Rs 3600 to Rs 3900. Find the increase %.

Q9) Rahim sold a water cooler for Rs 8010 at a loss of 11%. Find his cost price.
Q10) By selling a refrigerator for Rs 18000, Sonia suffered a loss of 20%. At what price should she have sold it to make a profit of 10%?

Q11) Find the simple interest and amount on Rs 5000 for 2 yrs at the rate of 6% per annum.

Q12) Ravi borrowed Rs 5000 from Raghavi at the rate of 12% per annum. After a certain time period he paid Raghavi Rs 6450. From how much time did Ravi borrow the money?