Exercise 3D

Q9

Answer :

Uniform speed of a car = 75 km/h

Distance = speed × time

= 75 × 98

=75 × (100 − 2) (Using distributive law)

=75 × 100 − 75 × 2

=7500 − 150

= 7350 km

∴ The distance covered in 98 h is 7350 km.

Q10

Answer :

Cost of 1 VCR set = Rs 24350

Cost of 139 VCR sets = 139 × 24350

=24350 × (140 − 1) (Using distributive property)

=24350 × 140 − 24350

=3409000 − 24350

= Rs. 3384650

∴ The cost of all the VCR sets is Rs 33,84,650.

Q11

Answer :

Cost of construction of 1 house = Rs 450000

Cost of construction of 197 such houses = 197 × 450000

= 450000 × (200 − 3)

= 450000 × 200 − 450000 × 3 [Using distributive property of multiplication over subtraction]

= 90000000 − 1350000

= 88650000

∴ The total cost of construction of 197 houses is Rs 8,86,50,000.

Q12

Answer :

Cost of a chair = Rs 1065

Cost of a blackboard = Rs 1645

Cost of 50 chairs = 50 × 1065 = Rs 53250

Cost of 30 blackboards = 30 × 1645 = Rs 49350

∴ Total amount of the bill = cost of 50 chairs + cost of 30 blackboards

= Rs (53250 + 49350)

= Rs 1,02,600

********** END **********