

**RD SHARMA**

**Solutions**

**Class 7 Maths**

**Chapter 10**

**Ex 10.1**

**Q1. 20 chocolates cost Rs 320. Find the cost of 35 such chocolates.**

**Solution:**

Cost of 20 chocolates = Rs 320

Cost of 1 chocolate = Rs  $(\frac{320}{20})$

Therefore, the cost of 35 chocolates = Rs  $(\frac{320}{20} \times 35) = \text{Rs } 560$

**Q2. The cost of 40 meters of cloth is Rs 200. Find the cost of 50 meters of cloth.**

**Solution:**

Cost of 40 meters of cloth = Rs 200

Cost of 1 meter of cloth = Rs  $(\frac{200}{40})$

Therefore, the cost of 50 chocolates = Rs  $(\frac{200}{40} \times 50) = \text{Rs } 250$

**Q3. A car can cover a distance of 522 km on 36 liters of petrol. How far can it travel on 14 litres of petrol?**

**Solution:**

Number of kilometers a car can cover by using 36 liters = 522 km

Number of kilometers a car can cover by using 1 liter =  $\frac{522}{36}$  km

Hence, the number of kilometers a car can cover by using 14 liters =  $(\frac{522}{36} \times 14)$  km = 203 km

**Q4. Travelling 900 km by rail costs Rs 280. What would be the fare for a journey of 360 km when a person travels by the same class?**

**Solution:**

Cost of travelling 900 km by rail = Rs 280

Cost of travelling 1 km by rail = Rs  $(\frac{280}{900})$

Hence, Cost of travelling 360 km by rail = Rs  $\frac{280}{900} \times 360 = \text{Rs } 112$

**Q5. If 6 oil tankers can be filled by a pipe in  $4\frac{1}{2}$  hours, how long does the pipe take to fill 4 such oil tankers?**

**Solution:**

Time taken by 6 oil tankers to be filled by a pipe =  $4\frac{1}{2}$  hours =  $\frac{9}{2}$  hours

Time taken by 1 oil tankers to be filled by a pipe =  $\frac{9}{6}$  hours

Hence, the time taken by 4 oil tankers to be filled by a pipe =  $\frac{9}{12} \times 4$  hours = 3 hours

**Q6.  $\frac{3}{4}$  of the salary per month is Rs 600. What is the salary per month?**

**Solution:**

Let the salary be 'x'

Given,

$\frac{3}{4}$  of the salary per month is Rs 600

$$\frac{3}{4} \times x = \text{Rs } 600$$

$$x = \text{Rs } 600 \times \frac{4}{3}$$

$$x = \text{Rs } 800$$

Therefore, the salary per month is Rs 800

**Q7. The cost of 32 tables is Rs 23520. Find the number of such tables that can be purchased for Rs 51450**

**Solution:**

Number of tables bought for Rs 23520 = 32

Number of tables bought for Re 1 =  $\frac{32}{23520}$

Number of tables bought for Rs 51450 =  $\frac{32}{23520} \times 51450 = 70$

**Q8. The yield of wheat from 6 hectares is 280 quintals. Find the number of hectares required for a yield of 225 quintals.**

**Solution:**

Number of hectares required for a yield of 280 quintals = 6 hectares

Number of hectares required for a yield of 1 quintal =  $\frac{6}{280}$  hectares

Hence, the number of hectares required for a yield of 225 quintals =  $\frac{6}{280} \times 225$  hectares =  $4\frac{23}{28}$  hectares

**Q9. Fifteen post cards cost Rs 2.25. What will be the cost of 36 post cards? How many postcards can we buy in Rs 45?**

**Solution:**

Cost of 15 post cards = Rs 2.25

Cost of 1 post card = Rs  $\frac{2.25}{15}$

Cost of 36 post cards = Rs  $\frac{2.25}{15} \times 36 =$  Rs 5.4

As we know,

Number of postcards bought at Rs 2.25 = 15

Number of postcards bought at Re 1 =  $\frac{15}{2.25}$

Number of postcards bought at Rs 45 =  $\frac{15}{2.25} \times 45 = 300$

**Q10. A rail journey of 75 km costs Rs 215. How much will a journey of 120 km cost?**

**Solution:**

Cost of a rail journey of 75 km = Rs 215

Cost of a rail journey of 1 km = Rs  $\frac{215}{75}$

Cost of a rail journey of 120 km = Rs  $\frac{215}{75} \times 120 =$  Rs 344

**Q11. If the sales tax on a purchase worth Rs 60 is Rs 4.20. What will be the sales tax on the purchase worth of Rs 150?**

**Solution:**

Sales tax on the purchase worth of Rs 60 = Rs 4.20

Sales tax on the purchase worth of Re 1 = Rs  $\frac{4.20}{60}$

Sales tax on the purchase worth of Rs 150 = Rs  $\frac{4.20}{60} \times 150 =$  Rs 10.50

**Q12. 52 packets of 12 pencils each, cost Rs 499.20. Find the cost of 65 packets of 10 pencils each.**

**Solution:**

Total number of pencils in 52 packets of 12 pencils each =  $52 \times 12 = 624$

Cost of 624 pencils = Rs 499.20

Cost of 1 pencil = Rs  $\frac{499.20}{624}$

Now,

Number of pencils in 65 packets of 10 pencils each =  $65 \times 10 = 650$  pencils

Therefore, cost of 650 pencils = Rs  $\frac{499.20}{624} \times 650 =$  Rs 520.

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