♦ A. Bela's Method – Multiplying Using Expansion

Q1. Use Bela's method to multiply:

Break 46 into 40 + 6

- \rightarrow 32 × 6 = 192
- \rightarrow 32 × 40 = 1280
- → Total = 192 + 1280 = **1472**
 - b) 67 × 18

Break 18 into 10 + 8

- \rightarrow 67 × 8 = 536
- \rightarrow 67 × 10 = 670
- \rightarrow Total = 536 + 670 = **1206**

♦ B. Shantaram the Special Cook

Shantaram is paid ₹165 per day.

He worked for 28 days.

- \rightarrow 165 × 28
- $= (165 \times 20) + (165 \times 8)$
- = 3300 + 1320 = **₹4620**

If he works all 365 days:

- → 165 × 365 =
- $= (165 \times 300) + (165 \times 60) + (165 \times 5)$
- = 49500 + 9900 + 825 = **₹60,225**

♦ C. Karunya the Landlord – Area and Cost

Fields:

- **A**: $28 \text{ m} \times 27 \text{ m} = 756 \text{ m}^2$
- **B**: $36 \text{ m} \times 12 \text{ m} = 432 \text{ m}^2$
- **C**: $27 \text{ m} \times 19 \text{ m} = 513 \text{ m}^2$

Costs:

- A: 756 × 95 = ₹71,820
- B: 432 × 110 = ₹47,520
- C: 513 × 120 = ₹61,560
- → Total = ₹1,80,900

O. Wages of Thulasi and Husband

- Thulasi (49 days × ₹55) = ₹2695
- Husband (42 days × ₹58) = ₹2436
 → Total = ₹5131

E. Satish's Story

17 goats, ₹1 per goat → ₹17 per day
 → Monthly = 17 × 30 = ₹510
 → Yearly = 17 × 365 = ₹6205

His mother pays ₹5000 per month loan \rightarrow ₹60,000 per year \rightarrow Satish **does not earn enough.**

F. Kamla Bai's Cow Story

- Cow cost = ₹17,500
- Kamla paid = ₹5,500
 → Govt paid = 17,500 5,500 = ₹12,000

If 9 villagers got cows:

Daily cow cost = ₹85 → Monthly cost = $85 \times 30 = ₹2550$

Milk = 8 litres/day \rightarrow 8 × 30 = 240 litres/month At ₹9 per litre \rightarrow 240 × 9 = ₹2160

- Loss = ₹2550 ₹2160 = ₹390
- **→** She spent more than she earned.

♦ G. Practice Problems (Examples)

- Sukhi's earning (₹98 × 52) = ₹5096
- Hariya's loan (₹2750 × 24) = ₹66,000
- Ratiram's milk (13 × 23 × 30) = ₹8970
- Farmer sells 210 litres at ₹11 → ₹2310
- **240** litres water at **₹12**/litre → **₹2880**

H. Division Practice

- **438** ÷ **9** = 48 r6
- **3480 ÷ 12** = 290
- **450** ÷ **7** = 64 r2

- **2475** ÷ **11** = 225
- **900 ÷ 10** = 90
- **678** ÷ **6** = 113

♦ I. Word Problems

- Egg trays for 204 eggs \rightarrow 204 \div 12 = 17 trays
- Books → 47 × 23 = **₹1081**
- Petrol with ₹1000 at ₹47/litre → 1000 ÷ 47 ≈ 21 litres