## Word Problems of Weight

### Understanding Notes

- Weight is the measure of how heavy something is…

- The standard units used are gram (g) and kilogram (kg).

- 1 kilogram = 1000 grams

- Word problems use real-life situations like buying, comparing or sharing weights.

- Read the question carefully to know if you need to add or subtract.

- Convert all units to the same type before solving.

- Always write the final answer clearly in kg and g.

### Example: (Easy – Addition)

**A watermelon weighs 4 kg and a melon weighs 2 kg.**

**What is the total weight of both fruits?**

- ✓ 4 kg + 2 kg = 6 kg

  **Answer** = 6 kg

### Example: (Easy – Subtraction)

**A packet of flour weighs 750 g. If 250 g is used, what is the weight left?**

- ✓ 750 g – 250 g = 500 g

  **Answer** = 500 g

### Example: (Moderate – Mixed unit addition)

**A bag of rice weighs 3 kg 400 g and a bag of wheat weighs 2 kg 800 g.**

- ✓ Add kilograms = 3 + 2 = 5 kg

- ✓ Add grams = 400 + 800 = 1200 g

- ✓ 1200 g = 1 kg 200 g
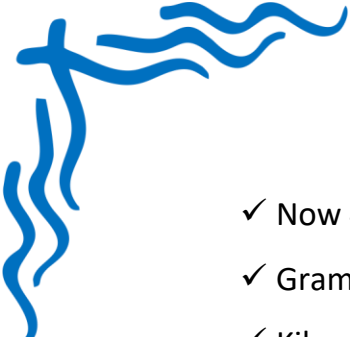
- ✓ Total = 5 kg + 1 kg 200 g = 6 kg 200 g

  **Answer** = 6 kg 200 g

### Example: (Moderate – Mixed unit subtraction with borrowing)

**A sack of potatoes weighs 5 kg 100 g. 3 kg 450 g of it is used.**

- ✓ 100 – 450 not possible, borrow 1 kg = 1000 g

- ✓ Now 4 kg and 1100 g
- ✓ Grams = 1100 − 450 = 650 g
- ✓ Kilograms = 4 − 3 = 1 kg
- ✓ Remaining weight = 1 kg 650 g

## Example: (Moderate – Weight difference)

**Reena's bag weighs 2 kg 750 g and Meena's bag weighs 1 kg 950 g.**

**Who is carrying more and by how much?**

- ✓ Compare: 2 kg 750 g − 1 kg 950 g
- ✓ 750 − 950 not possible, borrow 1 kg = 1000 g
- ✓ Now 1 kg and 1750 g
- ✓ Grams = 1750 − 950 = 800 g
- ✓ Kilograms = 1 − 1 = 0 kg

**Answer** = Reena's bag is heavier by 800 g

## Summary Points

- Weight tells how heavy an object is using kg and g
- 1 kg = 1000 g
- Word problems may involve addition or subtraction
- Always convert to the same unit before solving
- Use borrowing if grams in subtraction are not enough
- Write answers clearly in kg and g form