Estimating Difference

Understanding the Topic

- Estimating difference means finding an approximate answer by rounding the numbers before subtracting.
- It helps in getting a quick idea of how much one quantity is more or less than another.
- Estimation is useful when exact answers are not needed or when we want to check the reasonableness of a subtraction.

Steps to Estimate Difference

- Round both numbers to the nearest 10 100 or whole unit.
- Subtract the rounded numbers.
- Use the correct unit (cm kg l etc).

Useful For

- Length
- Weight
- Volume (Capacity)

Examples with Solutions

1. Estimating Length Difference (Easy).

Question: Find the estimated difference between 92 cm and 47 cm.

Solution: $92 \rightarrow 90$ and $47 \rightarrow 50$

90 - 50 = 40 cm (estimated difference)

2. Estimating Weight Difference (Moderate)

Question: A watermelon weighs 4.7 kg and a melon weighs 2.3 kg Estimate the difference.

Solution: 4.7 \rightarrow 5 kg and 2.3 \rightarrow 2 kg

5 – 2 = 3 kg

3. Estimating Capacity Difference (Easy)

Question: A jug has 970 ml of juice and a glass has 430 ml Estimate the difference in capacity.

Solution: 970 \rightarrow 1000 ml and 430 \rightarrow 400 ml

1000 – 400 = 600 ml

4. Word Problem (Moderate)

Question: A car travels 186 km on Monday and 134 km on Tuesday Estimate the difference in distance.

Solution: 186 \rightarrow 190 and 134 \rightarrow 130

190 – 130 = 60 km

5. Real-life Estimation (Moderate)

Question: A child's weight is 28.6 kg and his brother's weight is 32.2 kg Estimate how much heavier the brother is.

Solution: 28.6 \rightarrow 29 and 32.2 \rightarrow 32

32 – 29 = 3 kg

Summary Points

- Estimating difference means subtracting after rounding the numbers.
- It helps in quick and easy calculations.
- Round off to nearest 10 100 or whole number first.
- Useful in measuring length weight and volume.
- Good for checking if your exact answer is reasonable.
- Always use correct unit with the estimated answer.
- Helps save time in daily life situations.
- Improves mental maths and logical thinking.
- Use estimation only when exact answer is not required.
- Practice helps make better and faster estimates.