

## Ch 12: How Heavy? How Light :-

### Rounding off Numbers :-

- \* We round off numbers if we need only an estimate.

#### ★ Rounding off to the nearest 10 :-

- \* Check the digit in one's place.
- \* IF it is less than 5 then we round down to nearest 10,
- \* else round up to nearest 10.

52 round down to the nearest 10  $\rightarrow 50$  ( $\because 2 < 5$ )

85 round up to the nearest 10  $\rightarrow 90$  ( $\because 5 = 5$ )

179 round up to the nearest 10  $\rightarrow 180$  ( $\because 9 > 5$ )

Note: When we round off to nearest 10, we use the nearest multiple of 10.

#### ★ Rounding off to the nearest 100 :-

- Check the digit at the tens' place.
- IF it is less than 5, then we round down to nearest 100.
- else we round up to the nearest 100.

Note: When we round off to nearest 100, we use the nearest multiple of 100.

$$\underline{5}83 \longrightarrow 600 \quad (\because 8 > 5)$$

$$11\underline{0}2 \longrightarrow 1100 \quad (\because 0 < 5)$$

$$35\underline{4}9 \longrightarrow 3500 \quad (\because 4 < 5)$$

★ Rounding off to the nearest 1000 :-

- Check the digit at the hundred's place.
- IF it is less than 5, then we round down to nearest 1000,
- else we round up to the nearest 1000.

$$\underline{2}136 \longrightarrow 2000 \quad [\because 1 < 5]$$

$$4\underline{4}88 \longrightarrow 4000 \quad [\because 4 < 5]$$

$$\underline{6}705 \longrightarrow 7000 \quad [\because 7 > 5]$$