Meausrement of Weight (Mass)

Points to remember

1) We use simple balance to compare the weight of two objects.

2) Kilograms (Kg) and Grams (g) are the standard units use to measure the weight.

3) Kilogram is use to measure heavy weight objects. **For example:- Weight of a**

   Person , weight of your school bag etc.

4) Gram is use to measure light weight objects. **For example :- Weight of a feather,**
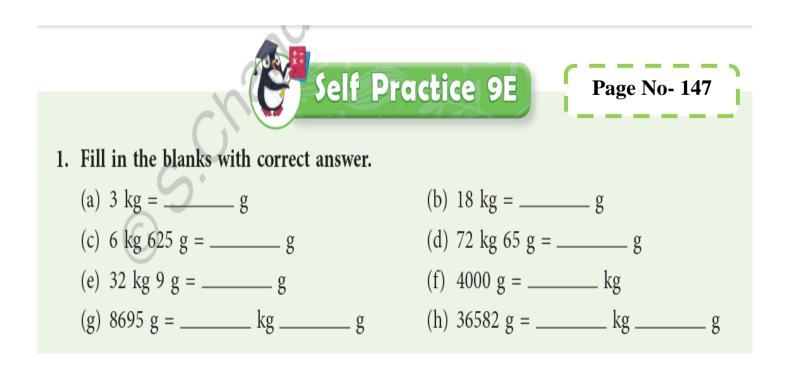
   weight of a chocolate etc.

5) To convert kg to g , we multiply it by 1000.

$$\textbf{1 Kg = 1000 g} \quad ; \textbf{(Half)} \frac{1}{2} \textbf{Kg = 500 g} ; \textbf{(Quarter)} \frac{1}{4} \textbf{Kg = 250 g}$$

6) To convert g to kg , we divide it by 1000.

$$\textbf{1g} = \frac{1}{1000} \textbf{Kg m}$$

Do this exercise in your classwork copy

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1. Fill in the blanks with correct answer.

   (a) 3 kg = _____ g   (b) 18 kg = _____ g

   (c) 6 kg 625 g = _____ g   (d) 72 kg 65 g = _____ g

   (e) 32 kg 9 g = _____ g   (f) 4000 g = _____ kg

   (g) 8695 g = _____ kg _____ g   (h) 36582 g = _____ kg _____ g

Solution 1:-

(a) 3Kg = _____ g

$\because$ 1 Kg = 1000 g

$\therefore$ 3 Kg = 3×1000 g

= 3000 g

(c) 6 Kg 625 g = _____ g

$\because$ 1 Kg = 1000 g

$\therefore$ 6 Kg 625 g = 6×1000 g + 625 g

= 6000 g + 625 g

= 6625 g

(d) 4000 g = _____ Kg

$\because$ 1 g = $\dfrac{1}{1000}$ Kg

$\therefore$ 4000 g = $\dfrac{4000}{1000}$ Kg

= 4 kg

(h) 36582 g = ____ Kg ____ g

$\because$ 1 g = $\dfrac{1}{1000}$ Kg

$\therefore$ 36582 g = $\dfrac{36582}{1000}$ Kg

= 36 Kg + 582 g

= 36 Kg 582 g

> **In Q1. (b) , (d) , (e) and (g) are homework.**

2. **Fill in the blanks with <, > or =.**

   (a) 4000 g _____ 4 kg

   (b) 6 kg 325 g _____ 625 g

   (c) 2 kg 20 g _____ 2120 g

   (d) 6570 g _____ $6\dfrac{1}{2}$ kg

Solution 2:-

(a) 4000 g __=__ 4Kg

$\because$ 1 Kg = 1000 g

$\therefore$ 4 Kg = 4 × 1000 g= 4000 g

(b) 6 Kg 325 g ___>___ 625 g

> ∵ 1 Kg = 1000 g
>
> ∴ 6 Kg 325 g = 6 × 1000 g + 625 g
>
>   = 6625 g

(c) 2 Kg 20 g ___<___ 2120 g

> ∵ 1 Kg = 1000 g
>
> ∴ 2Kg 20 g = 2 × 1000 g + 20 g
>
>   = 2020 g

(d) 6570 g ___>___ $6\frac{1}{2}$ Kg

> ∵ 1 Kg = 1000 g
>
> ∴ $\frac{13}{2}$ Kg = $\frac{13}{2}$ × 1000 g= $\frac{13000}{2}$ g
>
>   = 6500 g