



Percentage Ex 12.2 Q13

**Answer :**

Let the amount of gunpowder that contains 9 kg nitre be  $x$  kg.

$$\text{i.e., } \frac{75}{100} \times x = 9$$

$$\Rightarrow \frac{100}{75} = \frac{x}{9}$$

$$\Rightarrow x = \frac{900}{75}$$

$$\Rightarrow x = 12$$

$\therefore$  The amount of gunpowder containing 9 kg nitre is 12 kg.

Let the amount of gunpowder containing 2.3 kg sulphur be  $y$  kg.

$$\text{i.e., } \frac{10}{100} \times y = 2.3$$

$$\Rightarrow \frac{100}{10} = \frac{y}{2.3}$$

$$\Rightarrow y = \frac{230}{10}$$

$$\Rightarrow y = 23$$

$\therefore$  The amount of gunpowder containing 2.3 kg sulphur is 23 kg.

Percentage Ex 12.2 Q14

**Answer :**

Composition of the alloy = 15 parts of tin + 105 parts of copper  
= 120 parts

$$\therefore \text{Percentage of tin} = \frac{15}{120} \times 100$$

$$= 12.5\%$$

$$\text{Also, percentage of copper} = \frac{105}{120} \times 100$$

$$= 87.5\%$$

Percentage Ex 12.2 Q15

**Answer :**

Percentage of copper in the alloy = 32

Percentage of nickel in the alloy = 40

Percentage of zinc in the alloy =  $100 - 32 - 40 = 28$

$\therefore$  Amount of zinc in 1 kg of the alloy =  $(0.28 \times 1)$  kg  
= 280 gm

\*\*\*\*\* END \*\*\*\*\*