

### Weekly Question (20 Mar)

There were 60 questions in a Science test. Nathan answered 75% of them correctly. Ethan answered 30% of them correctly. How many percent fewer questions than Nathan did Ethan answer correctly?

#### Solution:

##### *Method 1*

$$75\% = \frac{3}{4} \quad ; \quad 30\% = \frac{3}{10}$$

$$\text{Nathan} \quad \rightarrow \quad \frac{3}{4} \times 60 = 45 \text{ correct}$$

$$\text{Ethan} \rightarrow \frac{3}{10} \times 60 = 18 \text{ correct}$$

$$\text{Percentage difference} \rightarrow \frac{45-18}{45} \times 100\% = 60\%$$

**Ans: Ethan answered 60% fewer correct questions than Nathan.**

##### *Method 2*

$$\text{Using percentage figures, percentage difference} \rightarrow \frac{75\%-30\%}{75\%} \times 100\% = 60\%$$

**Ans: Ethan answered 60% fewer correct questions than Nathan.**