

## If the linear momentum measures 50 %then K. E will increase?

- A. 50%
- B. 125%
- C. 100%
- D. 25%

Submitted by: **Ali**

Show Answer...

**Correct Answer: 125%**

**If the linear momentum measures 50 %then K. E will increase by **125%****

Percentage increase in K.E,

$$(E)=[E_2-E_1/E_1]\times 100=[E_2/E_1-1]\times 100$$

$$\text{But } E \propto p^2 \Rightarrow E_2/E_1 = p^2_2/p^2_1$$

$$\square \text{ \% increase in K.E. } = [p^2_2/p^2_1 - 1] \times 100$$

**Let  $p_1 = 100$ , then**

**$p_2 = 100 + 50 = 150\%$  increase in**

$$\text{K.E.} = [(150)^2 / (100)^2 - 1] \times 100 = [225/100 - 1] \times 100 = \mathbf{125\%}$$

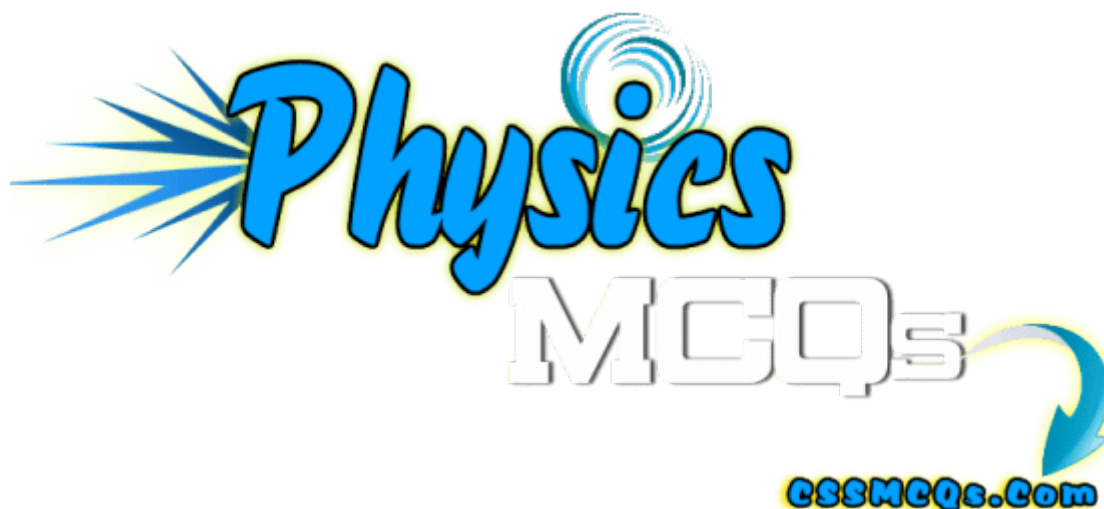
Therefore, the percentage increase in its kinetic energy is 125%

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