

- 19 The total energy input E_{in} in a process is partly transferred to useful energy output U , and partly to energy that is wasted W .

What is the efficiency of the process?

A $\frac{U}{W} \times 100\%$

B $\frac{W}{E_{\text{in}}} \times 100\%$

C $\frac{U}{E_{\text{in}}} \times 100\%$

D $\frac{U + W}{E_{\text{in}}} \times 100\%$

- 20 Why does an ideal gas exert pressure on its container?