

- 17 The power  $P$  required to move an object through a medium at constant speed depends on the speed  $v$  and the resistive force  $F$  acting on the object.

The resistive force  $F$  also depends on the speed  $v$ .

Which row shows a possible relationship between speed  $v$ , resistive force  $F$  and power  $P$ ?

	resistive force $F$	power $P$
A	proportional to $v$	constant
B	proportional to $v$	proportional to $v$
C	proportional to $v^2$	proportional to $v^2$
D	proportional to $v^2$	proportional to $v^3$

- 18 Which amount of energy is not 2400 J?