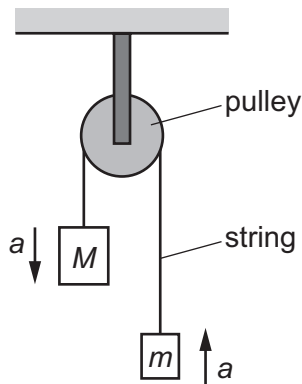


- 10 Two blocks of masses  $M$  and  $m$  are joined by a thin string which passes over a frictionless pulley, as shown.



The acceleration of free fall is  $g$ .

What is the acceleration  $a$  of the two blocks?

- A**  $\frac{(M + m)}{(M - m)}g$       **B**  $\frac{(M - m)}{(M + m)}g$       **C**  $\frac{M}{m}g$       **D**  $\frac{m}{M}g$

11 The diagram shows two blocks of masses  $M$  and  $m$  joined by a string which passes over a frictionless pulley.