

- 4 Two smooth blocks of masses 0.2 kg and 1.0 kg , are connected by a light, inextensible string running over a smooth pulley. One block is placed on a smooth table and the other hangs over the table via the string and pulley. Two possible such cases are shown in Fig. A and Fig. B below.

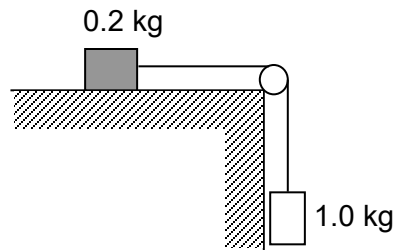


Fig. A

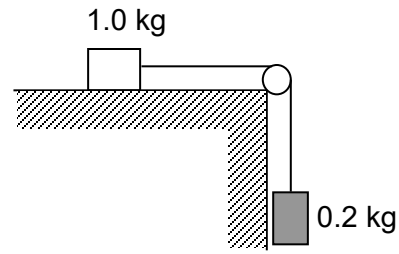


Fig. B

If the blocks in both Fig. A and Fig. B are released from rest, what is the ratio of the acceleration of the blocks in Fig. A to that in Fig. B?

A $1:1$

B $5:1$

C $6:1$

D $10:1$

