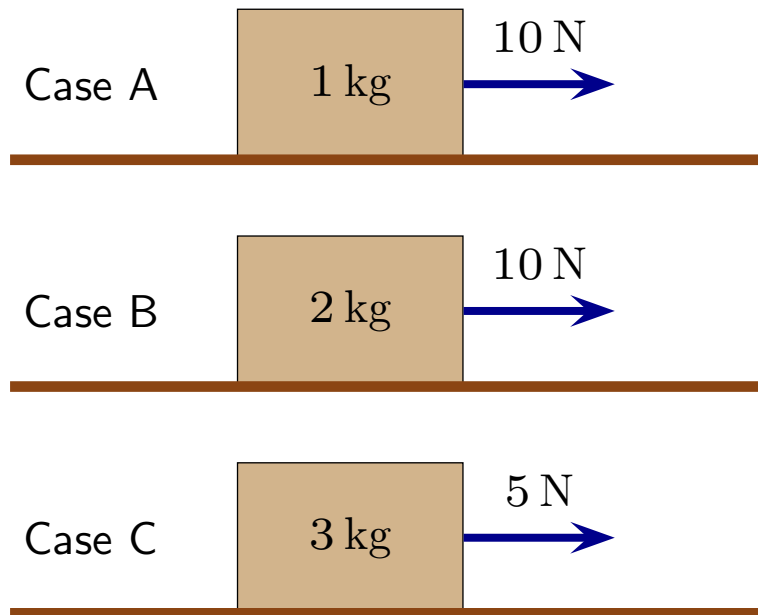


Question 1

Three boxes move horizontally while being pulled by people who exert constant forces horizontally.

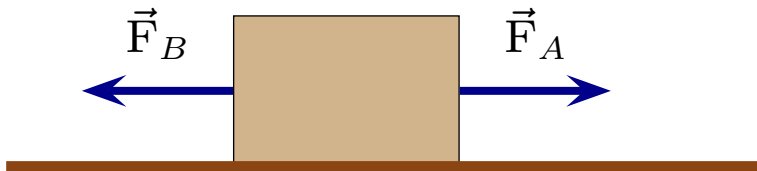


The blocks move right by distances $d_A = 1 \text{ m}$, $d_B = 1 \text{ m}$, $d_C = 2 \text{ m}$. Which of the following represents the ranking of the works done.

1. $W_A = W_B = W_C$
2. $W_C < W_A = W_B$
3. $W_A = W_B < W_C$
4. $W_A < W_B < W_C$
5. $W_A < W_C < W_B$

Question 2

Two forces pulled horizontally on a box, while the box *moves left*.



Let W_A be the work done by A and W_B be the work done by B. Which of the following is true?

1. W_A is positive. W_B is positive.
2. W_A is positive. W_B is negative.
3. W_A is negative. W_B is positive.
4. W_A is negative. W_B is negative.

Warm Up Question 1

A person holds a large fish suspended from a string. The person walks horizontally at a constant speed and during this time the string hangs vertically. Does the work done by the string/person on the fish depend on the distance walked by the person? Explain your answer.

1. Yes. The work definition contains distance.
2. No. The force and displacement are perpendicular.

Warm Up Question 2

A leaf falls to the ground at a constant speed. Is the net work done on the leaf positive, negative or zero? Explain your answer.

1. Zero. Kinetic energy is constant.
2. Negative. The leaf falls and loses energy.
3. Negative. The leaf moves down.
4. Positive. The leaf moves down and gravity does positive work.