

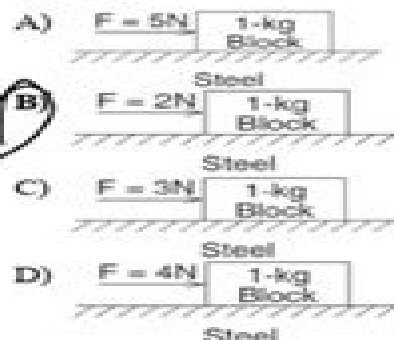
Forces Review

1. What is the minimum horizontal force needed to start a 300. kilogram steel block on a steel table in motion?

A) 5.70 N B) 7.40 N **F**
C) 1710 N D) 2220 N

$$\mu_s \cdot 300 \cdot 9.8$$

2. A different force is applied to each of four 1-kilogram blocks to slide them across a uniform steel surface at constant speed as shown below. In which diagram is the coefficient of friction between the block and steel *smallest*?



$$F_s = \mu F_N$$

3. An unbalanced force is applied to a mass, producing an acceleration. If the same unbalanced force is applied to a mass one-half as large, the resulting acceleration will be

A) the same B) twice as great
C) one-half as great D) four times as great

4. As an astronaut travels from the surface of Earth to a position that is four times as far away from the center of Earth, the astronaut's

A) mass decreases
B) mass remains the same
C) weight increases
D) weight remains the same

5. In the diagram below, a box is on a frictionless horizontal surface with forces F_1 and F_2 acting shown.



If the magnitude of F_1 is greater than the magnitude of F_2 , then the box is

A) moving at constant speed in the direction of F_1
B) moving at constant speed in the direction of F_2
C) accelerating in the direction of F_1
D) accelerating in the direction of F_2

6. When Earth and the Moon are separated by a distance of 3.84×10^8 meters, the magnitude of the gravitational force of attraction between them is 2.0×10^{20} newtons. What would be the magnitude of this gravitational force of attraction if Earth and the Moon were separated by a distance of 1.92×10^8 meters?

A) 5.0×10^{19} N B) 2.0×10^{20} N
C) 4.0×10^{20} N D) 8.0×10^{20} N

$$F_g =$$

$$F = ma$$

$$F \propto \frac{1}{r^2}$$

Recognizing Forces Worksheet Answer Key

Yan Bai



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