

- A) It has no units
B) It is measured in Newtons
C) It is always greater than 1
D) It is always less than 1

ANS: A

1. The coefficient of static friction is generally:
A) Less than the coefficient of kinetic friction
B) Equal to the coefficient of kinetic friction
C) Greater than the coefficient of kinetic friction
D) Not related to the coefficient of kinetic friction

ANS: C

1. The coefficient of friction:
A) is the ratio of the force of friction to the normal force C) neither a nor b
B) is the same for all materials D) both a and b

ANS: A

1. Which of the following statements about friction is false?
A) is caused by uneven surfaces of objects C) is increased when surfaces are smoothed
B) involves objects that are in physical contact D) is a force that resists motion

ANS: C

1. The force of friction between a cart and the floor is 25 N. If you push the cart with a force of 35 N, and you wish to calculate its acceleration, what force would you use in Newton's Law, $F = ma$?
A) 25 N B) 1.0 N C) 35 N D) 60 N

ANS: B

1. Friction:
A) comes from microscopic bumps that act as obstructions to the object's motion.
B) is the same given to the force acting between surfaces sliding past one another.
C) acts in a direction that opposes the motion of an object.
D) all of the above
E) none of the above

ANS: D

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ML Yell



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