1. Which of the following has the GREATEST resistance? A wire that is
2. long, thick and cold .
3. short, thin and cold.
4. long, thin and hot.
5. long, thin and cold.
6. short, thick and cold.
7. Consider the image below of light travelling through three different transparent media. Which of the following best compares the relative indices of refraction?

1

2

3

a. n1>n2<n3

b. n1<n2<n3

c. n1>n2>n3

d. n1<n2>n3

1. A box is being pushed across the floor at a constant velocity by an applied force. A force of friction of 65 N [E] opposes the motion. What is applied force acting on the box?

a. greater than 65 N [W]

b. 65 N [W]

c. less than 65 N [W]

d. depends on the mass of the box

1. When you catch a fast-moving baseball, your hand hurts less if you move it in the direction of the ball because

a. the ball changes momentum more slowly

b. the force applied is smaller

c. you decrease the impulse required to stop the ball

d. two of A, B, and C

e. all of A, B, and C

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