



Name _____ Class _____ Date _____

1 When a force moves an object over a rough, horizontal surface at a constant velocity, the work done against friction produces an increase in the object's

- A weight
- B momentum
- C potential energy
- D internal energy

2 A 5.0-newton force and a 7.0-newton force act concurrently on a point. As the angle between the forces is increased from 0° to 180°, the magnitude of the resultant of the two forces changes from

- A 0.0 N to 12.0 N
- B 2.0 N to 12.0 N
- C 12.0 N to 2.0 N
- D 12.0 N to 0.0 N



3 A 5.0-newton force could have perpendicular components of

- A 1.0 N and 4.0 N

4 The spring in a scale in the produce department of a supermarket stretches 0.025 meter when a watermelon weighing 1.0×10^2 newtons is placed on the scale.



PREVIEW

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7 per meter, the spring is compressed 0.500 meter. How much energy is stored in the spring?

- A 3.75 J
- B 7.50 J
- C 15.0 J
- D 30.0 J

velocity of 4.0 meters per second east. What will be the cart's velocity after a 6.0-newton westward force acts on it for 2.0 seconds?

- A 2.0 m/s east
- B 2.0 m/s west
- C 10 m/s east
- D 10 m/s west



9 Compared to the force needed to start sliding a crate across a rough level floor, the force needed to keep it sliding once it is moving is

- A less
- B greater
- C the same

10 A 400-newton girl standing on a dock exerts a force of 100 newtons on a 10,000-newton sailboat as she pushes it away from the dock. How much force does the sailboat exert on the girl?

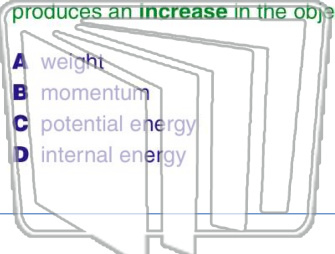
- A 25 N
- B 100 N
- C 400 N
- D 10,000 N





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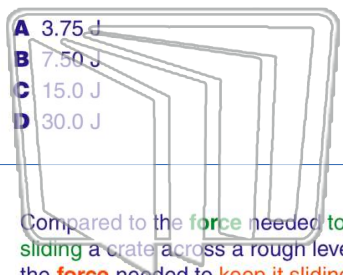
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