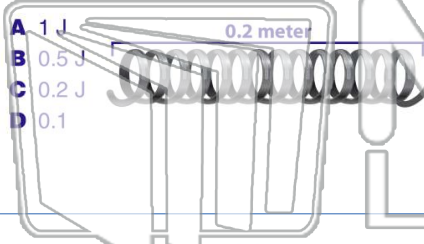




Name _____ Class _____ Date _____

1

A **5-newton force** causes a spring to stretch **0.2 meter**. What is the **potential energy** stored in the stretched spring?



- A 1 J
- B 0.5 J
- C 0.2 J
- D 0.1

2

A student applies a **20-newton force** to move a crate at a constant speed of **4.0 meters per second** across a rough floor. **How much work is done by the student on the crate in 6.0 seconds?**

- A 8.0 J
- B 120 J
- C 240 J
- D 480 J



3

A 5.0×10^2 -newton girl takes **10 seconds** to run up two flights of stairs to a landing, a total of **5.0 meters vertically** above her starting point. **What power does the girl**

4

The **kinetic energy** of a **980-kilogram** race car traveling at **90 meters per second** is approximately

5



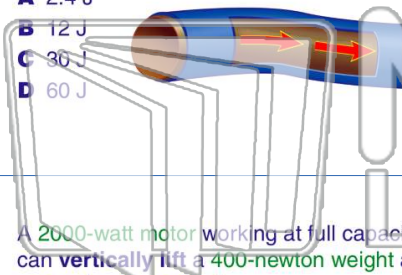
PREVIEW

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7

potential difference of 12 volts?

- A 2.4 J
- B 12 J
- C 36 J
- D 60 J

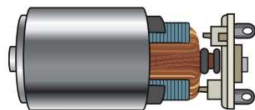


- A $\frac{\text{newton} \cdot \text{second}}{\text{meter}}$
- B $\frac{\text{newton} \cdot \text{meter}}{\text{second}}$
- C newton / meter
- D newton • meter

9

A **2000-watt motor** working at full capacity can **vertically lift** a **400-newton weight** at a **constant speed** of

- A 2×10^3 m/s
- B 50 m/s
- C 5 m/s
- D 0.2 m/s



10

A **3.0-kilogram mass** is attached to a spring having a **spring constant** of **30 newtons per meter**. The mass is pulled **0.20 meter** from the spring's equilibrium position and released. **What is the maximum kinetic energy** achieved by the mass spring system?

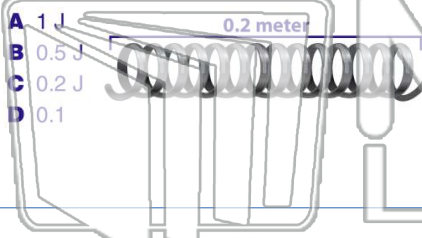
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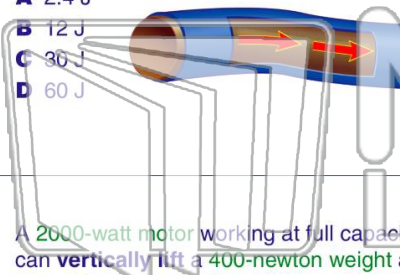
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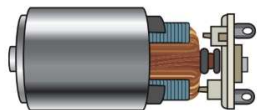
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