ARKANSAS PHYSICS · UNIT 2 · 5 QUESTIONS

Work, Energy, and Momentum — Practice Test

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1 **Wooden shipping crate on a concrete warehouse floor, seen from the side, large in frame. A force of 15 newtons pushes a crate 8 meters in the direction of the force The work done on the crate is**



A 23 joules

B 90 joules

C 150 joules

D 120 joules

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2 **A mass of 4 kilograms moves at 6 meters per second Its kinetic energy is one half times 4 times 36 joules Its kinetic energy is**

- A 72 joules
- B 48 joules
- C 96 joules
- D 144 joules

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3 **A mass of 8 kilograms is lifted 3 meters Use 10 meters per second squared for gravity The gain in gravitational potential energy is**

- A 120 joules
- B 240 joules
- C 360 joules
- D 480 joules

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4 **A machine has a useful output of 150 joules from an input of 300 joules The efficiency of the machine is**

- A 25 percent
- B 75 percent
- C 50 percent
- D 150 percent

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5 **A mass of 5 kilograms moves at 7 meters per second Its momentum is**

- A 12 kilogram meters per second
- B 42 kilogram meters per second
- C 70 kilogram meters per second
- D 35 kilogram meters per second

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ANSWER KEY

1. D
2. A
3. B
4. C
5. D

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