ARIZONA PHYSICS · UNIT 2 · 10 QUESTIONS

Work, Energy, and Momentum — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **A force of 12 N acts for 5 s. The impulse delivered is**

- **A** 2.4 N s
- **B** 17 N s
- **C** 60 N s
- **D** 7 N s

Understand It with Pulse | Flag a mistake

2 **A force of 18 N pushes an object 5 m in the direction of the force. The work done, in joules, is ____**

ANSWER _____

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3 **An object of mass 3 kg moves at 6 m/s. Its kinetic energy, in joules, is _____**

ANSWER _____

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4 **An object of mass 7 kg moves at 4 m/s. Its momentum, in kilogram meters per second, is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **Use g = 10 m/s². An object of mass 4 kg is 6 m above the ground. Its gravitational potential energy, in joules, is _____**

ANSWER _____

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6 **An object of mass 3 kg moves at 8 m/s and sticks to an object of mass 3 kg at rest. Their common speed after sticking together is**

- A 8 m/s
- B 4 m/s
- C 2 m/s
- D 16 m/s

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7 **Use g = 10 m/s². An object dropped from a height of 5 m reaches the ground with speed about**

- A 5 m/s
- B 50 m/s
- C 25 m/s
- D 10 m/s

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8 **Power is defined as the rate at which work is done, so doing the same work in half the time gives**

- A half the power
- B the same power
- C twice the power
- D zero power

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9 **In an inelastic collision, momentum is conserved but kinetic energy is**

- A also conserved
- B not conserved
- C doubled
- D created

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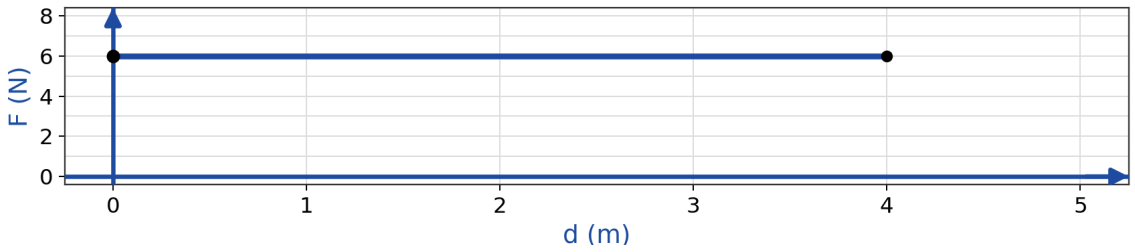
10 **Using the graph of force against distance, the work done is**



A 6 J

B 24 J

C 10 J

D 4 J

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ANSWER KEY

1. C
2. 90
3. 54
4. 28
5. 240
6. B
7. D
8. C
9. B
10. B

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