

Math Skills Work Energy Answers

Use the gravitational potential energy equation, and rearrange it to solve for mass. 3. Substitute gravitational potential energy, height, and free-fall acceleration values into the equation, and solve. 1. The world record for pole vaulting is 6.15 m.

Both work and energy are typically measured in joules (J). Recall that 1 joule equals 1 newton-meter, the work done when an object is moved 1 meter by a 1-newton force. Although energy can take

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Math Skills Work Energy Answers

$4.35 \times 10^1 \text{ J} = 3.00 \times 10^2 \text{ J}$ $1.4 \times 10^{13} \text{ J}$ (8.5 min) $\times (60 \text{ s/min})$ $2.7 \times 10^{10} \text{ W}$ total or $9.0 \times 10^9 \text{ W}$ per engine $\times 10^1 \text{ J}$ $5 \times 10^7 \text{ J}$ $1.5 \times 10^3 \text{ s}$ P $21 \times 746 \text{ W}$

TEACHER RESOURCE PAGE Answer Key

Holt Science Spectrum 83 Work and Energy Skills Worksheet Math Skills Work After you study each sample problem and solution, work out the practice problems on a separate sheet of paper. Write your answers in the spaces provided. PROBLEM A car has run out of gas. Fortunately, there is a gas station nearby. You must exert a

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Math Skills continued Step 3: Insert the known values into the equation, and solve. Practice 10. A medium-sized household oscillating fan draws 0.520 A of current when the potential difference across its motor is 120.0 V. How large is the fan's resistance? 11. A refrigerator's circuit has a current equal to 0.647 A in it when the voltage

Math Skills

Holt Science Spectrum 12 Work and Energy Name Class Date Math Skills continued Problem A building under construction requires building materials to be raised to the upper floors by cranes or elevators. A quantity of cement is lifted 76.2 m by a crane, which exerts a force on the cement that is slightly larger than the weight of the cement.

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WORKSHEET 2019 Gravitational Potential Energy

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Section 15.1 15.1 Energy and Its Forms

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