

**Concept-Development Practice Page** **9-1**

*Work and Energy*

1. How much work (energy) is needed to lift an object that weighs 200 N to a height of 4 m?  
800 J

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2. How much power is needed to lift the 200-N object to a height of 4 m in 4 s?  
200 W

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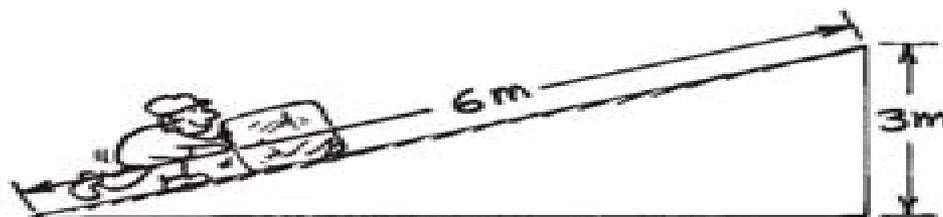
3. What is the power output of an engine that does 60,000 J of work in 10 s?  
6 kW

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4. The block of ice weighs 500 newtons.
  - a. What is the mechanical advantage of the incline?  
2:1

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  - b. How much force is needed to push it up the incline (neglect friction)?  
250 N



5. All the ramps are 5 m high. We know that the KE of the block at the bottom of the ramp will be equal to the loss of PE (conservation of energy). Find the speed of the block at ground level in each case. [*Hint:* Do you recall from earlier chapters how long it takes something to fall a vertical distance of 5 m from a position of rest (assume  $g = 10 \text{ m/s}^2$ )? And how much speed a falling object acquires in this time? This gives you the answer to Case 1. Discuss with your classmates how energy conservation gives you the answers to Cases 2 and 3.]



Case 1: Speed = 10 m/s    Case 2: Speed = 10 m/s    Case 3: Speed = 10 m/s

**Block on A reaches bottom first; greater acceleration and less ramp distance. Although it will have the same speed at bottom, the time it takes to reach that speed is different!**

**CONCEPTUAL PHYSICS**

# Physics Concept Development Practice Page Answers Work

**Albert A Gayle**



**Physics Concept Development Practice Page Answers Work:**

## Unveiling the Energy of Verbal Beauty: An Emotional Sojourn through **Physics Concept Development Practice Page Answers Work**

In some sort of inundated with screens and the cacophony of fast communication, the profound power and psychological resonance of verbal art frequently fade in to obscurity, eclipsed by the constant barrage of sound and distractions. Yet, nestled within the musical pages of **Physics Concept Development Practice Page Answers Work**, a fascinating function of fictional brilliance that impulses with natural emotions, lies an wonderful trip waiting to be embarked upon. Composed by way of a virtuoso wordsmith, this enchanting opus courses viewers on a psychological odyssey, lightly exposing the latent potential and profound affect embedded within the intricate internet of language. Within the heart-wrenching expanse of this evocative evaluation, we shall embark upon an introspective exploration of the book is main styles, dissect its captivating writing style, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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