

Determine whether the objects in the following problems have kinetic (KE) or potential energy. (PE). Then, use the appropriate formula to calculate the answer.

$$KE = \frac{\text{mass} \times \text{velocity}^2}{2}$$

$$PE = m (\text{mass}) \times g (\text{gravity}) \times h (\text{height})$$

On Earth, gravity (g) = 9.8 m/s^2 , so in the formula substitute 9.8 for gravity.

7. You serve a volleyball with a mass of 2 kg. The ball leaves your hand with a speed of 30 m/s. The ball has kinetic energy. Calculate it.

$$KE = \frac{1}{2}mv^2$$

$$KE = \frac{1}{2}(2\text{kg})(30\text{m/s})^2 = 900\text{J}$$

8. A baby carriage is sitting at the top of a hill that is 20 m high. The carriage with the baby in it weighs 10 kg. The carriage has potential energy. Calculate it.

$$PE = mgh$$

$$PE = (10\text{kg})(9.8\text{m/s}^2)(20\text{m})$$

$$PE = 1962\text{J}$$

9. A car is traveling with a velocity of 20 m/s and has a weight (mass) of 1000 kg. The car has kinetic energy. Calculate it.

$$KE = \frac{1}{2}mv^2$$

$$KE = \frac{1}{2}(1000\text{kg})(20\text{m/s})^2$$

$$KE = \frac{1}{2}(1000\text{kg})(400\text{J})$$

$$KE = 200000\text{J}$$

10. There is a bell at the top of a tower that is 20 m high. The bell weighs 100 kg. The bell has potential energy. Calculate it.

$$PE = mgh$$

$$PE = (100\text{kg})(9.8\text{m/s}^2)(20\text{m})$$

$$PE = 19,620\text{J}$$

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M Lipman



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