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Thermodynamics, Pressure \u0026amp; Volume, Chemistry Problems Electric Potential \u0026amp; Electric Potential Energy Physics Problems Work Problems - Calculus **Introduction to Impulse \u0026amp; Momentum - Physics** Work Physics Problems With Solutions Work Physics Problems with Solutions Work is done when an object moves in the same direction, while the force is applied and also remains constant. Refer the below work physics problems with solutions and learn how to calculate force, work and distance. Work Physics Problems with Solutions | Work Example Problems Solution : $W = F d \cos \theta = (20) (2) (\cos 0) = (20) (2) (1) = 40 \text{ Joule}$.
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Problem #1: How many joules of work are done against a cart when a force of 50 N pushes it 1 kilometer away?

Solution: First convert 1 kilometer to meter. 1 kilometer = 1000 meters. Then, use the formula $w = F \times d$ $w = 50 \text{ N} \times 1000 \text{ meters}$ $w = 50000 \text{ N.m}$ $w = 50000$ joules Problem #2: Work of 2000 J is required to push an object.

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Solution For Problem # 5 Centripetal acceleration is the acceleration an object experiences as it travels a certain velocity along an arc. The centripetal acceleration points towards the center of the arc. Centrifugal force is the imaginary force an unrestrained object experiences as it moves around an arc.
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Solution : $W = F d \cos \theta = (20) (2) (\cos 0) = (20) (2) (1) = 40 \text{ Joule}$. Read :
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Work energy and power problems and solutions. A machine does 20 joules of work in 4 seconds. Find its power.

Solution: Given data: time= $t = 4 \text{ s}$ Work = $W = 20 \text{ J}$ Power = $P = ?$ Formula= $P = W/t$ $P = 20 \text{ J} / 4 \text{ s}$ $P = 5 \text{ W}$. A man has pulled a cart through 35m by applying a force of 300

N. Find the work done by the man.

Solution: Given data: Distance = $S = 35$ m

Force = F ...

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Work is done when an object moves in the same direction, while the force is applied and also remains constant. Refer the below work physics problems with solutions and learn how to calculate force, work and distance.

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Work in Uniform Circular Motion Clearly the force and the displacement will be perpendicular at all times. Thus the cosine of the angle between them is 0. Since $W = Fx \cos\theta$, no work is done on the ball.

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