

## WORK ENERGY THEOREM PRACTICE

$$W = \Delta KE$$

$$W = KE_f - KE_i$$

$$W = \frac{1}{2} m v_f^2 - \frac{1}{2} m v_i^2$$

$$W = Fd$$

- 1) Find the Kinetic energy of a 7.5kg ball, that is moving at 12m/s.
- 2) Find the velocity of a 3.5kg ball with a KE of 18J
- 3) What is the mass of an object with 16J of KE moving at 3m/s?
- 4) What is the Work done on an object that started at rest with a final KE of 35J?
- 5) Haley hits a 3kg volleyball with a force of 7.5N at a 35 degree angle. If the ball started from 2.4m/s, how far did the ball land if it ended at 6m/s?