Triangles:







1. Calculate the force applied on an object accelerating at 60m/s2 if its mass is 35 kg.

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| **Label the given numbers** | **Equation** | **Work**  | **Answer** |
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1. An object is moving 2.5m/s. It accelerates to 5m/s in 6 seconds. What is the object's acceleration?

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| **Label the given numbers** | **Equation** | **Work**  | **Answer** |
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1. My cell phone has a mass of 147.75 g and has a volume of 222.75 cm3. Find the density.

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| **Label the given numbers** | **Equation** | **Work**  | **Answer** |
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1. Calculate the frequency of yellow light with a wavelength of 5.80x10-9m if the velocity of the wave is 3.0x108m/s.

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| **Label the given numbers** | **Equation** | **Work**  | **Answer** |
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1. How far was an object moved that was pushed with a force of 75N and used 2000J of energy to move?

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| **Label the given numbers** | **Equation** | **Work**  | **Answer** |
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1. How much power does an engine produce if 2000 J of energy are used in 125s?

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| **Label the given numbers** | **Equation** | **Work**  | **Answer** |
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1. What is the weight of an object that has a mass of 12kg?

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| **Label the given numbers** | **Equation** | **Work**  | **Answer** |
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1. What is the potential energy of a 50kg rock sitting on the edge of a cliff that is 100m high?

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| **Label the given numbers** | **Equation** | **Work**  | **Answer** |
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1. What is the kinetic energy of a 50kg boy running 5m/s?

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| **Label the given numbers** | **Equation** | **Work**  | **Answer** |
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1. How far did you run in 10s if your velocity is 5m/s?

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| **Label the given numbers** | **Equation** | **Work**  | **Answer** |
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1. How much power is produced in a circuit with a voltage of 50V and a current of 10A?

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| **Label the given numbers** | **Equation** | **Work**  | **Answer** |
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1. How much force is needed to move a box 20m using 30J of work?

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| **Label the given numbers** | **Equation** | **Work**  | **Answer** |
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