**Revision questions on simple machines**

1. **Define the following terms:**
2. Load:--------------------------------------------------------------------------------------------------------------------
3. Effort: ------------------------------------------------------------------------------------------------------------------
4. Force magnifier:--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
5. Fulcrum:---------------------------------------------------------------------------------------------------------------
6. Simple machine:--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
7. Screw:------------------------------------------------------------------------------------------------------------------
8. Name the process used to develop Indigenous stone tools:---------------------------------------------
9. An egg beater can be classified as a --------------------------------------- magnifier
10. What type of simple machine is present on a water bottle cap? ---------------------------------------
11. What is a wedge? Give examples.

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1. Write the formula for finding out the mechanical advantage of a lever.

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1. Calculate the mechanical advantage of a lever with a load of 40Kg and an effort force of 10N.

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1. Car jacks are classified as ------------------------------------ multiplier.
2. Based on question 8, how a person using the car jack is able to gain the mechanical advantage required to lift a car.

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1. List some examples of force multipliers.

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1. Calculate mechanical advantage of a crowbar that requires a force of 60 N to shift a 120 N rock.

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1. Name the types of levers. Define each of them.

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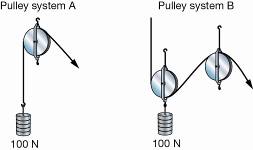
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1. Using the following diagram (a) identify which pulley system needs a greater effort force to lift the weight.



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(b) Which pulley system has the greater mechanical advantage? Explain how this mechanical advantage is obtained.

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