

1. Calculate the maximum weight to be lifted by the finger. Write the formula.

Data: Formula:  X  =  X

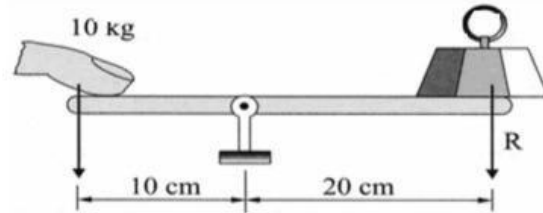
F =

$A_F$  =

R =

$A_R$  =

Solution:  Kg



2. For the following levers, explain whether the lever rotates to the right, to the left or is in equilibrium.

|    |    |                         |
|----|----|-------------------------|
| a) | d) | a. <input type="text"/> |
| b) | e) | b. <input type="text"/> |
| c) | f) | c. <input type="text"/> |
|    |    | d. <input type="text"/> |
|    |    | e. <input type="text"/> |
|    |    | f. <input type="text"/> |

3. Calculate the maximum distance needed to lift the load of the crane.

Data: Formula:  X  =  X

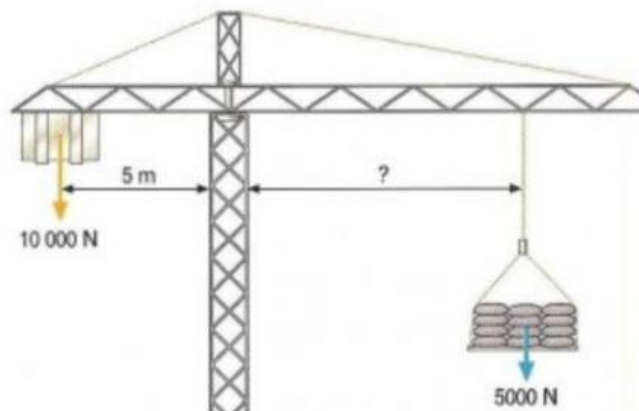
F =

$A_F$  =

R =

$A_R$  =

Solution:  m



4. Calculate the maximum weight to be lifted by the wheelbarrow. Write the formula.

Data:      Formula:  X  =  X

F =

A<sub>F</sub> =

R =

A<sub>R</sub> =

Solution:  N

