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

Data: Formula: ☐ X ☐ = ☐ X ☐

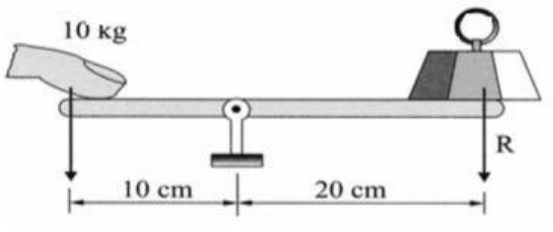
F = ☐

A_F = ☐

R = ☐

A_R = ☐

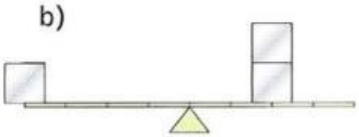
Solution: ☐ Kg



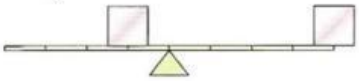
2. For the following levers, explain whether the lever rotates to the right, to the left or is in equilibrium.

a)

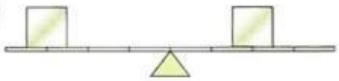
b)



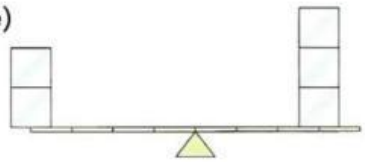
c)



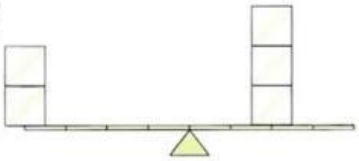
d)



e)



f)



a. ☐

b. ☐

c. ☐

d. ☐

e. ☐

f. ☐

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

Data: Formula: ☐ X ☐ = ☐ X ☐

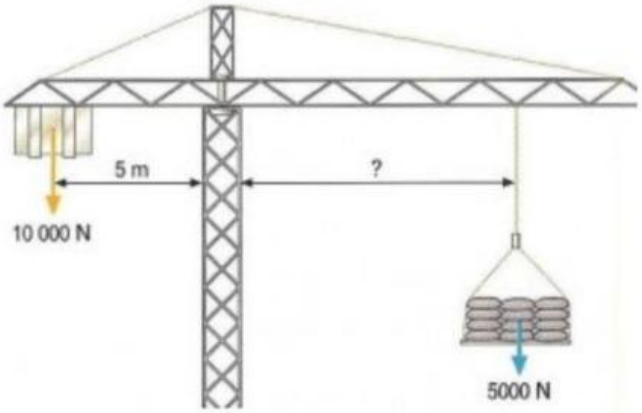
F = ☐

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_F = ☐

R = ☐

A_R = ☐

Solution: ☐ N