

Answer all question in the spaces provided. The diagram below shows a man pushing a chair. Study the diagram and answer the questions below.



a) Identify the type of force that could affect the motion of the chair.

[1]

b) If the gentleman decides to lift the chair, what force would then affect the motion of the chair?

[1]

c) If 60J of work was done to move this chair 3m, how much force (N) was exerted?

[1]



d) Name the part of the bicycle which applies useful friction.

[1]

e) Briefly explain why friction is useful.

[1]

f) The diagram has wheel and axle. Where on the bicycle is it located?

_____ [1]

g) A cyclist competes in a cross country event.

(i) Name the force acting on the speeding cyclist, trying to slow down, as she heads into a strong wind?

_____ [1]

(ii) How much work was done if the cyclist used 40N of force to travel 5m into the strong wind?

_____ [1]