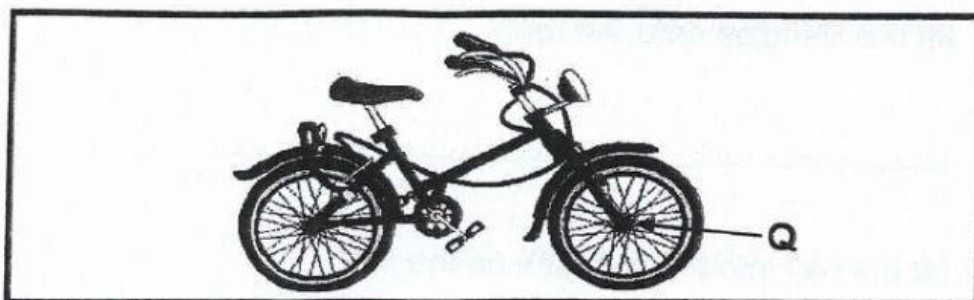


## 6. SIMPLE MACHINES

The picture below shows a bicycle which is made up of several different simple machines.



(a) Name the simple machine marked 'Q' on the diagram.

\_\_\_\_\_

[1]


(b) Write the name of the simple machine that is described in each of the statements below.


(i) a wheel with a groove for a rope \_\_\_\_\_ [1]

(ii) an inclined plane wrapped around a pole \_\_\_\_\_ [1]

(c) **Simple machines are a part of everyday life.**

Give one example in which each simple machine listed below is used in everyday life.

(i)  inclined plane \_\_\_\_\_ [1]

(ii)  wedge \_\_\_\_\_ [1]

[GO ON]

(d) Mr. Rolle wants to put shingles on the roof of his house. Each bundle of shingle weighs 75 lbs. Name the simple machine he can use to:

(i) lift the shingles onto the roof.

[1]

\_\_\_\_\_

(ii) hit the nail into the shingles on the roof.

[1]

\_\_\_\_\_

(e) (i) Explain the difference between a simple machine and a compound machine.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

[2]

(e) (ii) Give one example of a compound machine.

[1]

\_\_\_\_\_

**TOTAL MARKS [10]**

**[THE END]**