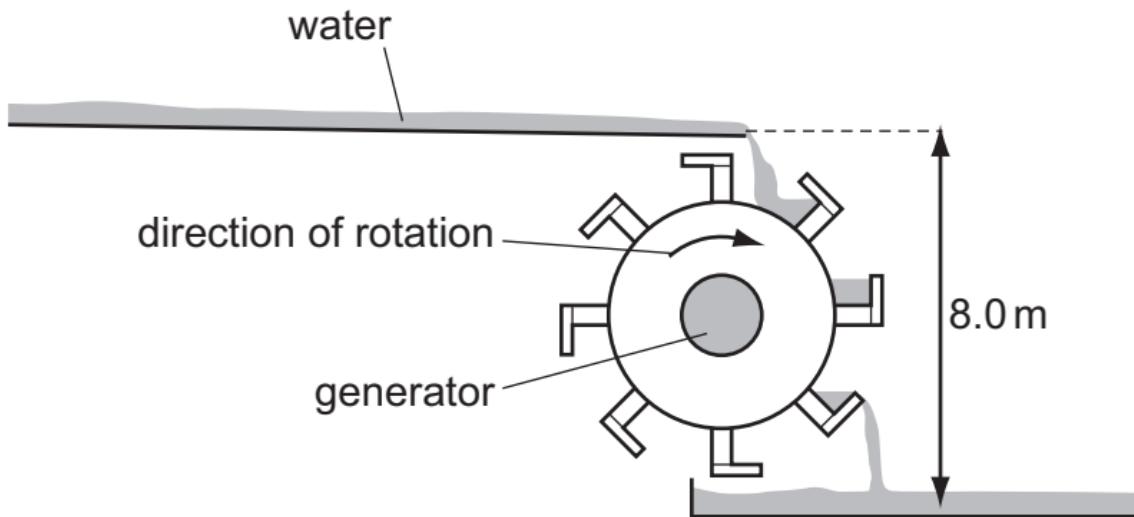


- 18 The diagram shows the design of a water wheel which drives a generator to produce electrical energy. The flow rate of the water is 200 kg s^{-1} . The generator supplies a current of 32 A at a voltage of 230 V.



Ignoring any changes in kinetic energy of the water, what is the efficiency of the system?

A 14 %

B 16 %

C 22 %

D 47 %

- 19 A car engine exerts an average force of 500 N in moving the car 1.0 km in 200 s.