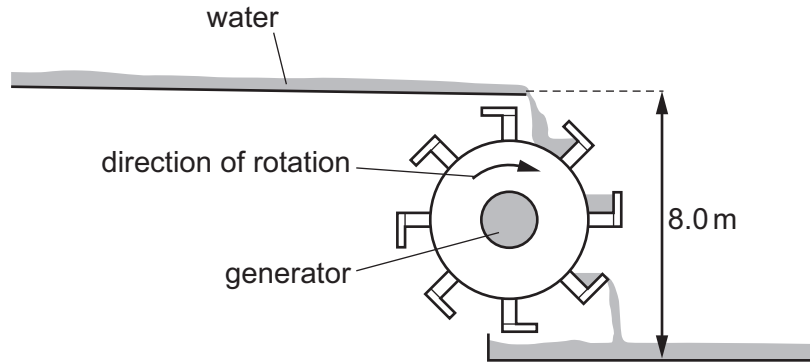


- 19** The diagram shows the design of a water wheel which drives a generator to produce electrical power. The flow rate of the water is 200 kg s^{-1} . The generator supplies a current of 32 A at a voltage of 230 V .



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

- A** 14% **B** 16% **C** 22% **D** 47%

- 20** The diagram shows the force-extension graph for a sample of material. The sample is stretched