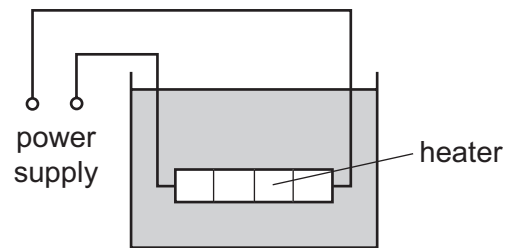


35 The diagram shows a low-voltage circuit for heating the water in a fish tank.



The heater has a resistance of 3.0Ω . The power supply has an e.m.f. of 12V and an internal resistance of 1.0Ω .

At which rate is energy supplied to the heater?

A 27W

B 36W

C 48W

D 64W

Space for working