22 Two heating elements X and Y of a domestic fan heater are made of wire of the same resistivity and length. They are connected in parallel to a power supply. Element X transfers energy at a rate of 1.0 kW and element Y transfers energy at a rate of 1.5 kW.

The diameters of the wire of the heating elements are d_x and d_y.

What is the value of the ratio $\dfrac{d_x}{d_y}$?

A   0.67   B   0.82   C   1.2   D   1.5