1. The work done, W joules, by an applied force, F newtons, moving through a distance, d metres in the direction of the force is given by the equation

$$W = Fd$$

Work out the work done to move a box 10 m in the direction of an applied force of 300 N

. . . . . joules

2. A car travels 450 miles in 10 hours.

   Work out the average speed of the car.

. . . . . mph

3. Calculate the force on the 100 m^2 side of a lorry by winds pressure of 300 N/m^2

   You may use the formula $\text{Pressure} = \frac{\text{Force}}{\text{Area}}$

..... N

4. Work out the volume of a copper necklace of mass 45 g
   The density of the copper is 9 g/cm^3

..... cm^3

Answers

1. 3000
2. 45
3. 30 000
4. 5