Name : _____

Rearranging Formulae

Metric units: S1

1) The volume V of a cone is calculated using the formula $V = \frac{1}{3}\pi r^2 h$, where r is the radius and h is the height of the cone. Rearrange the formula, to make radius(r) the subject.

r = _____

The volume and height of a cone are 84π mm^3 and 7 mm respectively. Find the radius of the cone.

r = _____

2) The formula to find tal distance and t is the time taken to cove rmula.

d = _____

Frank drove his car mine the distance covered by Frank.

d = _____

3) The perimeter P of w), where l and w are the length and width c th(l) the subject.

l = _____

Find the length of 3 cm.

l = _____

4) The force F of an object is calculated by multiplying its mass 'm' with acceleration 'a'. Rearrange the formula F = ma to make mass(m) the subject.

m = _____

Determine the mass of an object, if it requires a force of 6,000 $kg{\cdot}m/s^2$ to accelerate at the rate of 2 m/s^2.

m = _____