Name : _____

Rearranging Formulae

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 cubic feet and 7 feet 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 _____ nine the distance covered by Frank.

   d = ____

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

   l = ____

   Find the length of _____ 8 feet.

   l = ____

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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·m/s² to accelerate at the rate of 2 m/s².

   m = _____