

MEI Core 1 Rearranging Formulae Questions Jan 05 - May 09

1 Make  $r$  the subject of  $V = \frac{4}{3}\pi r^3$ . [3]

2 Make  $x$  the subject of

$$3x - 5y = y - mx. \quad [3]$$

3 Make  $C$  the subject of the formula  $P = \frac{C}{C+4}$ . [4]

4 The volume of a cone is given by the formula  $V = \frac{1}{3}\pi r^2 h$ . Make  $r$  the subject of this formula. [3]

5 Make  $a$  the subject of the equation

$$2a + 5c = af + 7c. \quad [3]$$

MEI Core 1 Rearranging Formulae Questions Jan 05 - May 09

- 6** Make  $t$  the subject of the formula  $s = \frac{1}{2}at^2$ . [3]
- 7** Make  $v$  the subject of the formula  $E = \frac{1}{2}mv^2$ . [3]
- 
- 8** Make  $x$  the subject of the equation  $y = \frac{x+3}{x-2}$ . [4]
- 
- 9** Rearrange  $y + 5 = x(y + 2)$  to make  $y$  the subject of the formula. [4]
- 10** Make  $a$  the subject of the formula  $s = ut + \frac{1}{2}at^2$ . [3]