

Master Maths 9 Worksheet 28

Creating Formulae and Transposition

28

Name: _____

1. Write the following statements to a formulae.

(a) a is equal to two times b .

$$a =$$

(b) Voltage (V) is equal to the product of current (I) and resistance (R).

$$V =$$

(c) Area (A) is equal to the volume (V) divided by length (l).

$$A =$$

(d) Work done (W) is equal to the product of mass (m), gravity (g) and height (h).

$$W =$$

(e) The intensity of light (I) is equal to a constant (k) divided by the square of the distance (d) from the light source.

$$I =$$

(f) Energy (E) is equal to the product of the square of the current (I), resistance (R) and time (t).

$$E =$$

(g) The speed (s) of an object is equal to its distance travelled (d) divided by the time taken (t).

$$s =$$

(h) Final velocity (v) is equal to the sum of the initial velocity (u) and the product of acceleration (a) and time (t).

$$v =$$

2. **Transpose** each of the following formulae to make the pronumeral in brackets the subject.

(a) $y = x + z$ (x)

$$x =$$

(b) $z = 3A$ (A)

$$A =$$

(c) $b = c^2$ (c)

$$c =$$

(d) $B = D - A$ (D)

$$D =$$

(e) $B = D - A$ (A)

$$A =$$

(f) $y = 3x + c$ (x)

$$x =$$

(g) $v = u + at$ (u)

$$u =$$

(h) $v = u + at$ (a)

$$a =$$

(i) $E = mc^2$ (m)

$$m =$$

(j) $E = mc^2$ (c)

$$c =$$