



*Formulae*

## Guugpvkn'kphqto cvkqp

**3^WkS[U afSf[a`**

Be careful when using algebraic notation. For example,

$$3 \times a = 3a$$

$$(3a)^2 = (3a) \times (3a) = (3 \times a) \times (3 \times a) = (3 \times 3) \times (a \times a) = 9 \times a^2 = 9a^2$$

When changing the subject of an equation, always write down clearly the operations which have been used. For example, make  $a$  the subject of the equation  $4a + b = c$ .

$$4a + b = c \quad (\text{add } -b \text{ to each side})$$

$$4a + b - b = c - b$$

$$4a = c - b \quad (\text{divide both sides by 4})$$

$$a = \frac{c - b}{4}$$

## Pqvg'ij cv

$$(-a) \times b = -a \times b \quad (= -ab) \quad \text{for any number } a, b$$

$$(-a) \times (-b) = a \times b \quad (= ab) \quad \text{for any number } a, b$$