

### You Try:

Substitute to evaluate the following algebraic expressions when  $x = 2$ ,  $y = 25$  and  $z = 8$ . Show all of your work!

|                      |                     |                     |
|----------------------|---------------------|---------------------|
| 1) $3z$              | 2) $y - z + x$      | 3) $y^x$            |
| 4) $z \div x$        | 5) $x + y + z$      | 6) $9 - x$          |
| 7) $100 - 10x - 10z$ | 8) $14 \div x + 2y$ | 9) $w^0$            |
| 10) $xyz$            | 11) $z(x + y)$      | 12) $x + x \cdot y$ |

### **Evaluating Expressions Extra Practice**

Use substitution to evaluate each expression for the given value of the variable. Show your work!

|   |                                      |                                 |
|---|--------------------------------------|---------------------------------|
| 1) $9y - 3$ (for $y = 11$ )             | 2) $7m$ (for $m = 5$ )               | 3) $d^2 - 2d$ (for $d = 9$ )    |
| 4) $6q + 39$ (for $q = 10$ )            | 5) $6v$ (for $v = 3$ )               | 6) $j^3 + 11$ (for $j = 8$ )    |
| 7) $2k^2 + 5k + 2$<br>(for $k = 11$ )   | 8) $\frac{n}{3} + n$ (for $n = 27$ ) | 9) $a \div 3$ (for $a = 42$ )   |
| 10) $4(11 + p) + 13$<br>(for $p = 89$ ) | 11) $h^3 - 2$ (for $h = 7$ )         | 12) $14z - 1$<br>(for $z = 9$ ) |