

# Excellence

1. Write an expression for 2 more than three times  $x$ .
2. Write an expression for 5 less than double  $y$ .
3. Write an expression for half of  $n$  plus 7.
4. Write an expression for 4 multiplied by the sum of  $p$  and 3.
5. Write an expression for one third of  $m$  minus 2.
6. Which is correct for "6 less than  $a$ ":  $a - 6$  or  $6 - a$ ? Explain.
7. Which is correct for "the sum of  $x$  and 5, then doubled":  $2(x + 5)$  or  $2x + 5$ ? Explain.
8. Which does not belong:  $3x$ ,  $x + x + x$ ,  $x^3$ ,  $2x + x$ ?
9. Complete: a possible expression for "8 more than half of  $t$ " is \_\_\_\_\_.

- 10.** Complete: a possible expression for "triple  $k$ , then subtract 1" is \_\_\_\_\_.
- 11.** A student says  $2a + 3$  means "double the sum of  $a$  and 3". Are they correct? Explain.
- 12.** A student says  $4(n - 1)$  and  $4n - 1$  mean the same thing. Are they correct? Explain.
- 13.** Write an expression for the perimeter of a rectangle with width  $w$  and length  $w + 2$ .
- 14.** Write an expression for the total cost of  $x$  pens at 3 dollars each and one book costing 5 dollars.
- 15.** Write an expression for the number of wheels on  $b$  bikes and  $s$  scooters if each has 2 wheels.
- 16.** Explain why an expression can have a value even when it is not an equation.