Module 4 Topic D Lesson 11 Student Copy

Classwork

1. Apply the distributive property to write equivalent expressions.

   a. $7x + 7y$

   b. $15g + 20h$

   c. $18m + 42n$

   d. $30a + 39b$

   e. $11f + 15f$

   f. $18h + 13h$

   g. $55m + 11$

   h. $7 + 56y$

2. Evaluate each of the expressions below.

   a. $6x + 21y$ and $3(2x + 7y)$ $x = 3$ and $y = 4$

   b. $5g + 7g$ and $g(5 + 7)$ $g = 6$

   c. $14x + 2$ and $2(7x + 1)$ $x = 10$

   d. Explain any patterns that you notice in the results to parts (a)–(c).

   e. What would happen if other values were given for the variables?

Homework

1. Use models to prove that $3(a + b)$ is equivalent to $3a + 3b$.

2. Use greatest common factor and the distributive property to write equivalent expressions in factored form for the following expressions.

    a. $4d + 12e$
    b. $18x + 30y$
    c. $21a + 28y$
    d. $24f + 56g$