

## Practice: Get Ready

### Working With Fractions

1. Find the least common denominator for the fractions in each pair.

a)  $\frac{1}{4}, \frac{3}{5}$

b)  $\frac{5}{6}, \frac{2}{9}$

c)  $\frac{1}{2}, \frac{2}{3}$

d)  $\frac{5}{7}, \frac{1}{4}$

e)  $\frac{3}{4}, \frac{1}{6}$

f)  $\frac{2}{5}, \frac{1}{3}$

### Operations With Integers

2. Simplify.

a)  $2 + (-3) - (-4) + 1$

b)  $14 - (-17) + (-15) - (+20)$

c)  $(-6) - (-9) + (-12)$

d)  $20 + (-18) - (-19) + (-20)$

e)  $1 - (+2) + (+3) - (-4)$

f)  $16 - (+14) - (+17) + (-15)$

### Simplifying Algebraic Expressions

3. Simplify each expression.

a)  $-5v + v - 2u + uv - 4uv + 3u$

b)  $2a + ab + a - 2ab - 3a$

c)  $yz + z - xy + 2xy + 5yz - 4z$

d)  $s - 3s + st + s - 4st$

e)  $-3x + x + xy + 4xy - y$

f)  $2z + y - z + y - 2x - 3x$

4. Expand and simplify.

a)  $4(x + 1) - 2x$

b)  $5(r - 2) + 5r - 1$

c)  $-8(m + 2) - m + 1$

d)  $2(x - 1) + 3(x + 1)$

e)  $-2(m - 2) - 3(m - 3)$

f)  $3x(y - 1) + x(y + 2)$

### Evaluating Expressions

5. Evaluate each expression for  $x = -1$  and  $y = 3$ .

a)  $5x + 1 - 2y$

b)  $-2(5y - x)$

c)  $-x - y + 1$

d)  $3(x - 1) + 2(y + 1)$

e)  $-(x - y) - 1$

f)  $4x(y - 1)$

### Modelling Equations With Algebra Tiles

6. Use algebra tiles to model each equation.

a)  $3x - 2 = 8$

b)  $-x = -4$

7. Write the equation represented by each set of algebra tiles.

a) 

b) 