Name _____   Date _____

Equivalent Expressions Independent Practice Worksheet 2

1. Which of the following expressions is equal to $(3(x^2 - 6x + 9))$

a) $3(x^2 - 6x - 9)$ b) $3(x - 3)^2$

c) $3(x + 3)^2$ d) $3(x^2 - 3)^2$

2. Which of the following expressions is equal to $(\frac{1}{2} + \frac{6}{7})$

a) $(\frac{6}{7} + \frac{1}{2})$ b) 2/14

c) $\frac{12}{14}$ d) $(\frac{2}{14} + \frac{1}{14})$

3. Which of the following expressions is equal to $\left(\frac{1}{2} + \frac{6}{7}\right) + \frac{4}{7}$

a) $\left(\frac{6}{7} + \frac{1}{2}\right) + \frac{2}{7}$ b) 2/14

c) $\frac{12}{14}$ d) $\frac{1}{2} + (\frac{6}{7} + \frac{4}{7})$

4. Which of the following expressions is equal to $(\frac{1}{2} * \frac{6}{7} * \frac{7}{3} * \frac{8}{4})$

a) 1   b) 2

c) 3   d) 4

5. Find the missing value in the expression so that they will be equal.

$(x + \_)^2 = x^2 + 9 + 2 * 3 * x$

6. Find the missing value in the expression so that they will be equal.

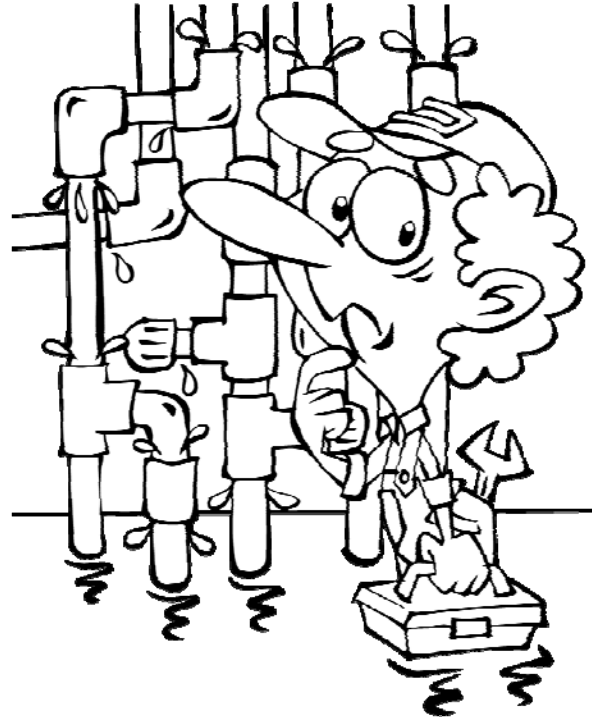$(x - \_)^2 = x^2 + 16 - 2 * 4 * x$

7. Find the missing value in the expression so that they will be equal.

$(x - 5)^2 = x^2 + \_ - 2 * 5 * x$

8. Find the missing value in the expression so that they will be equal.

$(x + 3)^3 = x^3 + 27 + 9x(\_ + \_)$

Equivalent Expressions Independent Practice Worksheet 2

Answer key:

1. b

2. a

3. d

4. b

5. $(x + 3)^2 = x^2 + 9 + 2 * 3 * x$

6. $(x - 4)^2 = x^2 + 16 - 2 * 4 * x$

7. $(x - 5)^2 = x^2 + 25 - 2 * 5 * x$

8. $(x + 3)^3 = x^3 + 27 + 9x(x + 3)$