Math 8 Journal Entries

Learning Guide 13

Expectation 1: Model and solve one-step equations of the type: ax = b, x/a = b

Show and explain how you would model and solve $2x = 8$ using algebra tiles.

Show and explain how you would solve $\dfrac{x}{3} = 5$ using algebra.

Expectation 2:   Model and solve two-step equations of the type: ax + b = c.

Show and explain how to model and solve $2x - 3 = 5$ using algebra tiles.

Show and explain how to solve $5x + 2 = -8$ using algebra.

Expectation 3:   Model and solve two-step equations of the type: x/a + b = c.

Show and explain how to model and solve $\dfrac{x}{2} - 3 = 5$ using algebra tiles.

Show and explain how to solve $\dfrac{x}{3} + 7 = 2$ using algebra.

Expectation 4:   Model and solve two-step equations of the type: a(x + b) = c

Show and explain how to model and solve $2(x - 1) = 4$ using algebra tiles.

Show and explain how to solve $3(x - 4) = -9$ using algebra.

What algebra rules do you use to solve any equation?