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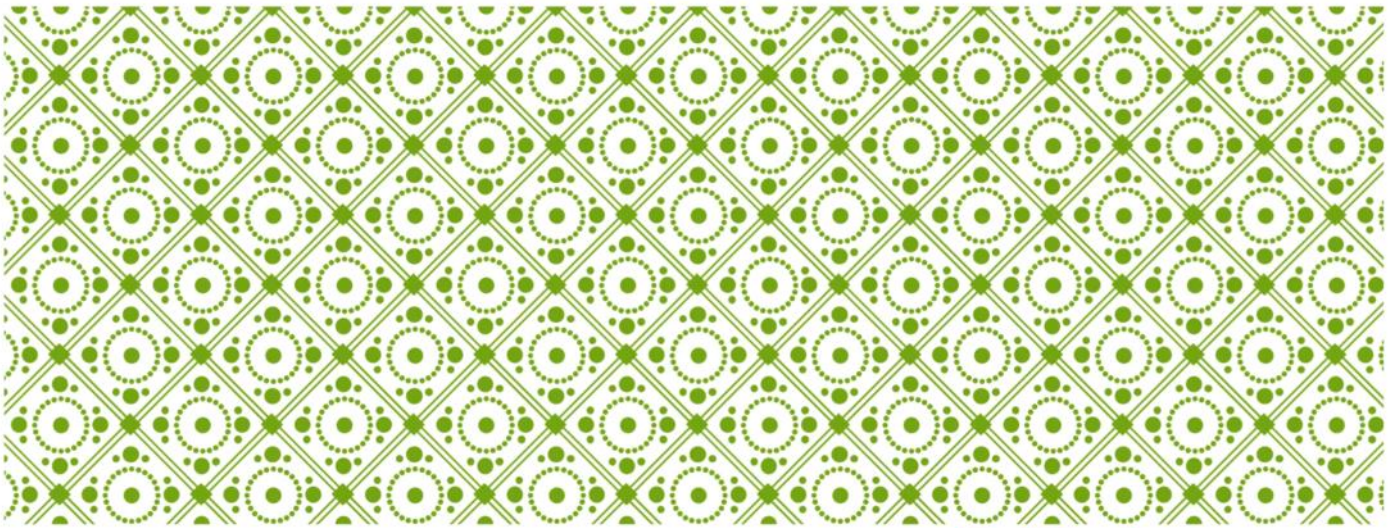

LESSON 4.1
SOLVE EQUATIONS

Goal: To solve equations/inequalities in math and real world context and to write rules for arithmetic sequence.

Obj: SWBAT solve equations.

PROBLEM 1:

Solve the equation.

$14 = x + 3$

$-3 \quad -3$

$11 = x$

check

$14 = 11 + 3$

$14 = 14$ ✓

$x - 16 = -20$

$+16 \quad +16$

$x = -4$

check

$-4 - 16 = -20$

$-20 = -20$ ✓

PROBLEM 1A:

Solve the equation.

$-27 = k - 15$

$+15 \quad +15$

$-12 = k$

✓

$18 + v = 37$

$-18 \quad -18$

$v = 19$

✓

PROBLEM 2:

Solve the equation.

$132 = -11x$ ← Multiply → $13k = 78$

$\frac{132}{-11} = \frac{-11x}{-11}$ do the opposite operation $\frac{13k}{13} = \frac{78}{13}$

$-12 = x$ $k = 6$

PROBLEM 2A:

Solve the equation.

$14 = \frac{n}{5}$ divide

$5 \cdot 14 = \frac{1}{5}n \cdot 5$

$70 = n$

$\frac{1}{5} \cdot \frac{5}{1} = \frac{1}{1} = 1$

$3 \cdot \frac{1}{3}x = 15 \cdot 3$

$x = 45$

PROBLEM 2B:

Solve the equation.

$11 \cdot 3 = \frac{x}{11} \cdot 11$

$33 = x$

$2 \cdot \frac{1}{2}x = -17 \cdot 2$

$x = -34$

PROBLEM 3:

Solve the equation.

$5x + 8 = 13$

$66 = -5x - 9$

PROBLEM 3A:

Solve the equation.

$-4x - 4 = 68$

$-19 = -1 + 9x$