

WARM UP

Evaluate:

$$1) 25/x = 5$$

$$2) 25(t) = 125$$

$$3) 17x = 221$$

$$4) x \div 39 = 3$$

MATH COURSE I

Two Step
Equations

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Mrs. Culverwell

VOCABULARY (Review)

Equation: a mathematical statement that show two expressions are equal

Solution: the value or values that make an equation true

Inverse operations: operations that undo each other ex. Addition/subtraction, multiplication/division

linear equation: an equation whose solution forms a straight line on a coordinate grid

Two Step Equations

- Get the variable by itself
- Undo operations using order of operations in reverse
- Undo addition and subtraction first
- Undo multiplication and division second
- Solve

Example

$$18 + 3x = 30$$

$$\begin{array}{r} -18 \\ 18 + 3x = 30 \\ \hline \end{array}$$

$$3x = 12$$

$$\begin{array}{r} \div 3 \\ 3x = 12 \\ \hline \end{array}$$

$$x = 12$$

Example 2

$$x/3 - 2 = 1$$

$$+2 \quad +2$$

$$x/3 = 3$$

$$x3 \quad x3$$

$$x = 9$$

Examples

$$6n + 3 = 21$$

$$8b - 4 = 12$$

$$4j + 4 = 12$$

$$2b + 4 = 12$$

$$3a - 1 = 11$$

Practice

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