Journal Entry:

1. If you say two shirts are similar, what does that mean about the shirts? What would you expect similar to mean if you were talking about two similar triangles?

2. A model ship is a type of scale model. What is the relationship of a model ship to the actual ship it models?

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Section 2-1
Solving One Step Equations

Students will be able to one step equations in one variable.

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1	1	5	1		2		1			5
2		2		10						2
5			1				2		1	

Player 1   Player 2

Both players need the same amount of coins to start. What amount must be in the treasure chest? Why?

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Define:

equivalent equations

Same result (value)

Addition and subtraction property of equlity:

if a = b, then a + c = b + c

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When solving equations you isolate the variable.

-use inverse operations

oprosite
add/sub
mult/divide
Sqr/sq.

Use inverse operations and properties to do this.

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Solve and check.

$$x + 18 = 72$$
$$-18 \quad -18$$
$$x = 54$$

$$54 + 18 \overset{?}{=} 72$$
$$72 \overset{.}{=} 72$$

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Solve and check:

$-8 = b - 10$

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We also use multiplication and division properties of equality to solve equations.

if a = b, then ac = bc

$(10)^2 = (2 \cdot 5) 2$

$10 \cdot 2 = 2 \cdot 5 \cdot 2$

$20 = 20$

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Solve and check:

$-15y = 25$

$y = -1 \frac{2}{3}$, $\boxed{-\frac{5}{3}}$

-20

$\frac{-2}{3} 10 = \frac{p}{2} \cdot \frac{2}{3}$

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Reciprocals can be used to solve equations with coefficients as fractions.

Solve:

$\frac{3}{2} \cdot \frac{2m}{2 \cdot 3} = 12 \cdot \frac{3}{2}$

$\frac{3}{2} \cdot \frac{2}{3} m = \frac{6}{12} \cdot \frac{3}{12}$

$m = 18$

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You have read 117 pages of a book. You are one third of the way done. Write and solve an equation to find out how many pages are in the book.

Equ: $\frac{3}{1} \cdot 117 = \frac{1}{3} \cdot \frac{3}{1} p$

Solution: 351 pgs

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Hwk: pg. 85 - 87
#50 - 78 evens, 75

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