MS Algebra: 3.2.2

Warm-up

Any ?s on HW: Worksheet 3.2.1

Goal: I can solve multi-step equations in one variable.

HW: Worksheet 3.2.2

Warm-up

$$m=\frac{y_2-y_1}{x_2-x_1}$$

Find the slope between these two points

1. (8, 6) and (4, -2)

$x_1, y_1 \quad x_2 \; y_2$

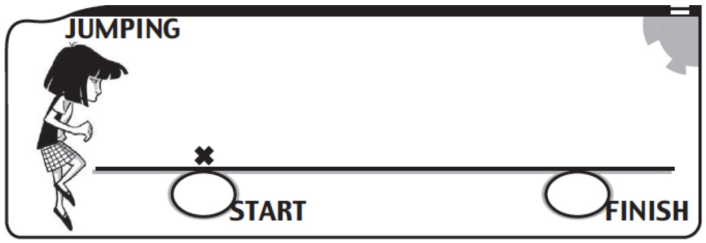
$\frac{-2+-6}{4+-8} = \frac{-8}{-4} = 2$

2

2. (-3, 5) and (-7, -1)

$\frac{-1+-5}{-7+3} = \frac{-6}{-4} = \frac{3}{2}$

3.2.2 CW



1. Make a sketch of the jumps on the tape measure and record the start and finish position of the jumper.

2. Complete the sentence:

The jumper starts at 150 centimeters, takes 3 jumps, and finishes at 340 centimeters.

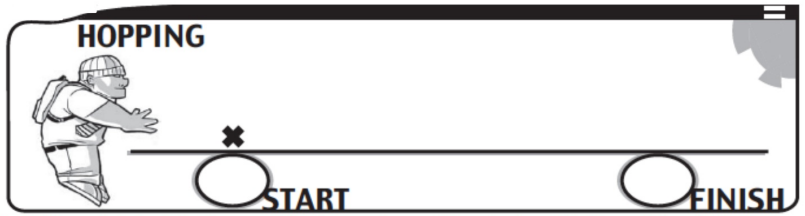
3. Translate the sentence into an equation. Use *J* to represent a jump.

$150 + 3J = 340$

$-150 \quad -150$

$\frac{3J}{3} = \frac{190}{3}$

$J = 63.\overline{3}$



1. Make a sketch of the hops on the line and record the start and finish position of the hopper.

2. Complete the sentence:

The hopper starts at 220 centimeters, takes 4 hops, and finishes at 410 centimeters.

3. Translate the sentence into an equation. Use *H* to represent a hop.

4. Use the sketch, numbers, and equation to determine the length of each hop.

$220 + 4h = 410$

$-220 \quad -220$

$\frac{4h}{4} = \frac{190}{4}$

$h = 47.5$

1. The student stands at the 12-foot mark and makes five jumps to finish at the 27-foot mark.

$12 + 5j = 27$

$-12 \quad -12$

$5j = 15$

$\frac{5j}{5} = \frac{15}{5}$

$j = 3$ feet

4. The flea is 14 millimeters behind the start of the ruler and makes 12 jumps to finish at the 10-millimeter mark.

$-14 + 12j = 10$

$+14 \quad +14$

$12j = 24$

$\frac{12j}{12} = \frac{24}{12}$

$j = 2$

6. The leaping lizard makes seven leaps to move from six inches to 20 inches.

$7l + 6 = 20$

$-6 \quad -6$

$7l = 14$

$\frac{7l}{7} = \frac{14}{7}$

$l = 2$