WARM-UP

Solve the following multi-step equation for the variable, a:

$$4(2a + 3) = -3(a - 1) + 31$$

$$89 + 12 = -39 + 3 + 31$$

$$80 + 12 = -39 + 34$$

$$80 + 12 = -34$$

$$80 + 12 = -34$$

$$80 + 12 = -34$$

$$80 + 12 = -34$$

$$80 + 12 = -34$$

$$80 + 12 = -34$$

$$80 + 12 = -34$$

$$80 + 12 = -34$$

$$80 + 12 = -34$$

$$100 = 22$$

$$110 = 22$$

$$110 = 22$$

Sep 24-7:39 AM

Clear Learning Objective

You will be able to solve equations with absolute value.

|3| = |3| - |3| = |3|Absolute value – the <u>distance</u> a number

is from zero on the number line.

(Note: ALWAYS POSITIVE!)

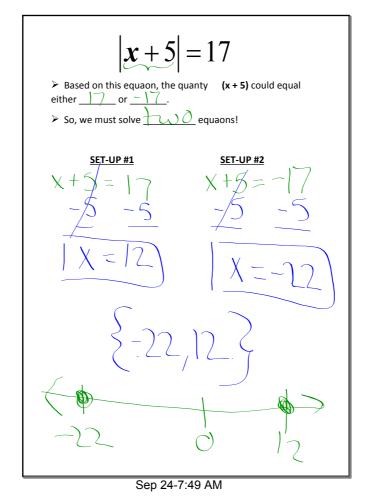
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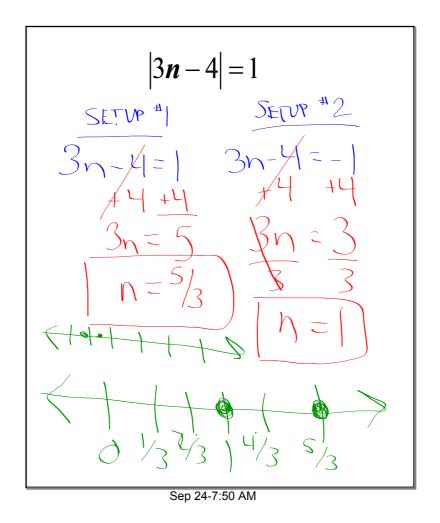
$$|x|=4$$

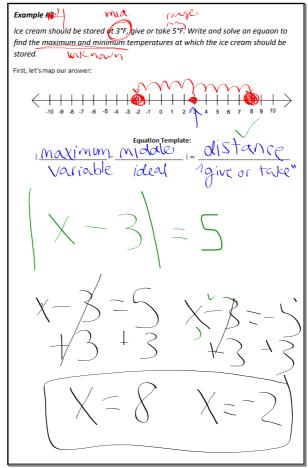
Because the absolute value bars make whatever's inside posive, x could actually be

positive or regative

Therefore, when we solve equaons with absolute value, we have to include $\underline{\text{MUITPL}}$ soluons.







Sep 24-7:51 AM

EXIT TICKET:

1. Solve for t: |2t - 4| = 8

2. The temperature of an enclosure for a pet snake should be about 80°F, give or take 6°F. Write an equaon representing the situation, and then find the maximum and minimum temperatures which are acceptable for this habitat.