Math8 Lesson 10.3
Thursday, March 16, 2017 3:32 PM
$\underset{\text { poff }}{\mathrm{p}^{2}} 10.3$

Date: $\qquad$

### 10.3 Notes: Solving Two Step Equations

What steps were done to " $x$ " to turn it into " $\frac{\frac{x}{5}+2}{- \pm}$ "?

$$
\begin{aligned}
& \times \times \\
& \text { divide by } 5 \\
& \text { add } 2
\end{aligned}
$$

What steps do you think you would need to do to turn 5 back into an $x$ ?

$$
\overline{\frac{x}{5}+2}
$$

## Practice:

What steps are needed to turn each of the following back into $x$ ?
$x \rightarrow \frac{x}{3}$
divide 3
$\frac{x}{-8}=3$
add 7
divide by -8
subtract 3

## Solving Two Step Equations

Follow the reverse order of operations to isolate the variable on one side

$=$


100


20

$=$

What steps were done to turn one line into the next line?

How would you go backwards and turn the last line back into the first line?

101

$$
\frac{x}{2}=1 \quad-\frac{x}{3}=5
$$

Examples:


The cost for Bobby-Sue to go to the monster truck rally is $\$ 3$ less than one third of her dad's adult ticket. The cost of the child ticket is 6 dollars. How much was the adult ticket?

$$
\begin{array}{r}
a=\text { adult ticket } \\
\frac{1}{3} a-3=6 \\
+3=+3 \\
\frac{3}{1} \times \frac{1}{3} a=9 \times 3 \\
a=27
\end{array}
$$

Adult ticket was \$27.

