Do Now: Solve

1.) -4 = -2b $b = 2$
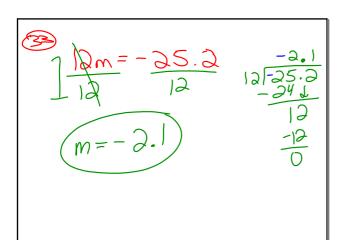
2.) w - 14 = -8 $w = 6$

3.) $-24 = \dfrac{x}{2}$ $x = -48$

4.) q + 12 = 8 $q = -4$

Oct 19-9:12 AM

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(29)

$-21 = -0.7p$

$\dfrac{-21}{-0.7} = \dfrac{-0.7p}{-0.7}$

$30 = p$

$-0.7 \overline{)-21.0}$

(30)

$-7\overline{)-210}$

Oct 19-9:24 AM

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(33)

$1\dfrac{12m}{12} = \dfrac{-25.2}{12}$

$m = -2.1$

$\begin{array}{r} -2.1 \\ 12\overline{)-25.2} \\ -24\downarrow \\ \hline 12 \\ -12 \\ \hline 0 \end{array}$

Oct 19-9:26 AM

3.3 Solving Two-Step Equations

7.NS
7.EE

- SWBAT solve two-step equations.
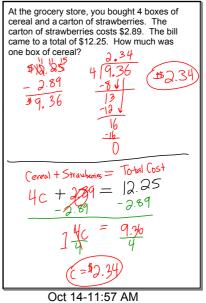- SWBAT understand how operations are related.

- Calculators: No

Oct 16-1:35 PM

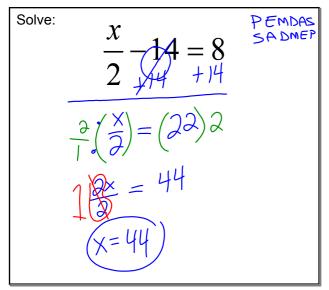
A long distance phone company that charges $3 per hour for calls and has a monthly fee of $6 has a <u>total monthly cost</u> of 3t + 6, where t is the number of hours of long distance. How many hours of long distance did you use in a month if your <u>bill</u> was <u>$45</u>?
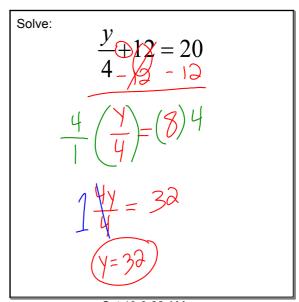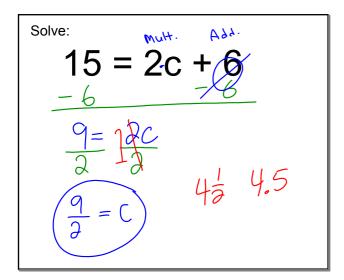
$3t + 6 = 45$
$\quad\quad -6 \quad -6$

PEMDAS
(Reverse)

$1\dfrac{3t}{3} = \dfrac{39}{3}$

$t = 13 \text{ hours}$

Oct 19-9:13 AM

At the grocery store, you bought 4 boxes of cereal and a carton of strawberries. The carton of strawberries costs $2.89. The bill came to a total of $12.25. How much was one box of cereal?

$\begin{array}{r} \$12.25 \\ -\ 2.89 \\ \hline \$9.36 \end{array}$

$\begin{array}{r} 2.34 \\ 4\overline{)9.36} \\ -8\downarrow \\ \hline 13 \\ -12\downarrow \\ \hline 16 \\ -16 \\ \hline 0 \end{array}$

$\$2.34$

Cereal + Strawberries = Total Cost

$4c + 2.89 = 12.25$
$\quad\quad -2.89 \quad -2.89$

$1\dfrac{4c}{4} = \dfrac{9.36}{4}$

$c = \$2.34$

Oct 14-11:57 AM

Solve:

$$\frac{x}{2} - 14 = 8$$

PEMDAS
SADMEP

$+14 \quad +14$

$$\frac{2}{1} \cdot \left(\frac{x}{2}\right) = (22)\,2$$

$$\frac{2x}{2} = 44$$

$$\boxed{x = 44}$$

Oct 19-9:22 AM

Solve:

$$\frac{y}{4} + 12 = 20$$

$-12 \quad -12$

$$\frac{4}{1}\left(\frac{y}{4}\right) = (8)\,4$$

$$\frac{4y}{4} = 32$$

$$\boxed{y = 32}$$

Oct 19-9:22 AM

Solve:

Mult.   Add.

$$15 = 2c + 6$$

$-6 \qquad -6$

$$\frac{9}{2} = \frac{2c}{2}$$

$$4\frac{1}{2} \quad 4.5$$

$$\boxed{\frac{9}{2} = c}$$

Oct 19-9:34 AM

Solve:

$$-11 - b = 34$$

$+11 \qquad +11$

Mult.

$$\frac{-b}{-1} = \frac{45}{-1}$$

$$\boxed{b = -45}$$

Oct 19-9:34 AM

Exit Pass 3.3
Solve.

1. $13 = 11 + \dfrac{y}{3}$

$$13 = 11 + \frac{y}{3}$$
$$-11 \quad -11$$
$$3\,(2) = \left(\frac{y}{3}\right)\frac{3}{1}$$
$$6 = \frac{3y}{3}$$
$$\boxed{6 = y}$$

2. $\dfrac{z}{5} - 3 = 4$

3. $-6x + 5 = 23$

4. $6 = 16 - a$

Oct 16-1:19 PM

"Don't blame the sea if you cannot catch a fish."

Working individually or with a partner, complete the workbook.

Workbook
pg. 35 #15-27 odds, 29-31 all

Oct 16-1:35 PM

29. $4(m + 1) = 8$

Oct 16-2:20 PM

30. $7 = -1(q + 13)$

Oct 14-11:59 AM

31. $8(1/4 + x) = 18$

Oct 14-11:59 AM

Reflection of Today's Lesson

3.3 Solving Two-Step Equations

7.NS
7.EE

- SWBAT solve two-step equations.
- SWBAT understand how operations are related.

Oct 14-11:50 AM

Homework

pg. 121-122 #11-35 odds, #38-44 all

Oct 16-1:36 PM