Do Now: Solve the equation

1.) $5x - 3 = 7$

2.) $147 = 36 - z$

3.) $11 + \dfrac{m}{3} = 8$

Oct 23-8:38 AM

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

Working individually or with a partner, complete the workbook.

**Workbook
pg. 35 #15-31 all**

Oct 21-2:19 PM

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

Oct 19-10:38 AM

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

Oct 19-10:39 AM

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

Oct 19-10:39 AM

Do Now:
Describe and correct the error in the solution.

$$3x - 9 = 18$$
$$+9 \quad +9$$

$3x - 9 = 18$

$3x = 9$

$x = 3$

Subtract 9
instead of
add 9

$$\dfrac{3x}{3} = \dfrac{27}{3}$$

$\boxed{x = 9}$

Oct 21-7:17 AM

3.4 Writing Two-Step Equations

7.NS
7.EE

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

- Calculators: No

Oct 23-8:53 AM

A zoo currently spends $1580 to feed its flamingos. Next year, its budget for feeding the flamingos will be $2370 and it will cost $395 to feed each additional flamingos. Which equation can be used to find n, the number of additional flamingos the zoo can buy?

a.) 1580 + 2370 = n

b.) 2370 = 395n + 1580

c.) 1580 + 2370 = 395n

d.) 2370 = n + 395

Total = Part + Part

$$2370 = 1580 + 395n$$

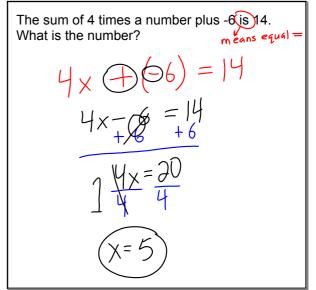Budget = Cost of old Flamingos + Cost of new flamingos

Oct 23-8:53 AM

It costs $825 a month for fuel for 11 cars. Each additional car costs $75 per month. If the monthly fuel budget gets increased to $1050, what equation can be used to find n, the number of additional cars?
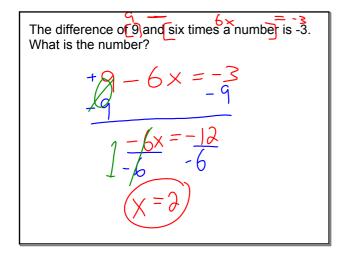
a.) 1050 + 825 = 75n

b.) 1050 - 825 + 75n = 0

c.) 825 - 825 + 75n = 1050

d.) 1050 = 825 + 75n

Part

Total = Part + Part

$$1050 = 825 + 75n$$

Oct 23-9:24 AM

The sum of 4 times a number plus -6 is 14. What is the number?

means equal =

$$4x + (-6) = 14$$

$$4x - 6 = 14$$
$$+6 \quad\quad +6$$

$$\frac{4x}{4} = \frac{20}{4}$$

$$x = 5$$

Oct 23-9:27 AM

The difference of 9 and six times a number is -3. What is the number?

$$9 - 6x = -3$$

$$9 - 6x = -3$$
$$-9 \quad\quad -9$$

$$\frac{-6x}{-6} = \frac{-12}{-6}$$

$$x = 2$$

Oct 23-9:28 AM

You want to find out how many pages you need to read per week in order to finish several books in six weeks. The books have a total of 1244 pages. You have already read 500 pages. WRITE and SOLVE an equation to find how many pages do you have to read per week?

Total = Part + Part

Equation: $1244 = 500 + 6p$

$$-500 \quad -500$$

$$744 = 6p$$

$$\frac{744}{6} = \frac{6p}{6}$$

$$124 = p$$

#Fiddle

124 pages per week

Oct 23-9:28 AM

You and your friends decide to have a car wash as a fundraiser for the school chorus. You spend $15 on supplies and charge $6 per car. At the end of the day your profit is $93. WRITE and SOLVE an equation to find how many cars did you and your friends wash?

Profit = Total Money — Supplies

Equation: $93 = 6c - 15$

$$\frac{108}{6} = \frac{6c}{6}$$

$c = 18$ cars washed #Chris

Oct 23-9:37 AM

Three people on vacation are sharing driving duty. They have driven 140 of the 800 miles so far. They want to divide the remaining distance equally among themselves. Write and solve an equation to answer this question.

Total = Part + Part

$800 = 140 + 3d$

$-140 \quad -140$

$$\frac{660}{3} = \frac{3d}{3}$$

220 miles each = d

Oct 23-10:17 AM

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

Working individually or with a partner, complete the workbook.

Workbook pg. 37

#1, 4, 7, 8, 10

Oct 16-2:13 PM

④ Total = Part + Part

$224 = 59 + 55h$

Oct 21-10:12 AM

Reflection of Today's Lesson

3.4 Writing Two-Step Equations

7.NS
7.EE

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

Oct 14-12:18 PM

Homework   Quiz tomorrow!

pg. 126 #1 - 20 (skip #6, 14)

Oct 16-2:14 PM