Do Now: Write this in your notes section

2. The mean temperature for February 4th in Chicago is 3°F below the mean temperature of 29°F for all of February in Chicago. What is the mean temperature for February 4th?

Equation: t - 3 = 29

No

29-3=t

No

t-3=29
+3 +3
t=29+3

No

Oct 15-11:02 AM

6, 8, 22, 24

(6) Adding 4 (8) Subtracting 35

Subtracting 4 Adding 35

(22) f-29=540 No

f+29=540

(24) 2.29 - c = 1.79 Yes

Oct 16-9:19 AM

Do Now:

1.) 56 ÷ (−8)

2.) 96 ÷ 12

3.) (−9)8

4.) −13(−4)

Oct 5-7:31 AM

3.2 Solving Equations Using Multiplication or Division

7.NS
7.EE

- SWBAT solve equations using multiplication or division.
- SWBAT write a verbal sentence as an equation.
- SWBAT represent situations using algebraic symbols; analyze situations using algebraic symbols.

- Calculators: No

Oct 6-2:33 PM

Division Property of Equality

Dividing each side of an equation by the same nonzero number produces an equivalent equation.

Ex: 3x = 12 (multiplied)

If 3x = 12, then $\frac{3x}{3} = \frac{12}{3}$ Divide → 1·x = 4

so, x = 4

Oct 5-7:33 AM

Solve: $\frac{-6x}{-6} = \frac{48}{-6}$ 1

Pos / Neg

X = −8 Neg

Oct 5-7:44 AM

Solve: $\frac{-1.2w}{-1.2} = \frac{-96}{-1.2}$

$w = 80$

$1.2\overline{)96.0}$

$12\overline{)960}$

-96

00

-0

0

Oct 5-7:44 AM

Solve the equation.

1. $9p = 54$ $p = 6$
2. $-2.5x = 20$ $x = -8$
3. $-45 = -15x$ $x = 3$

Oct 14-8:39 AM

(2) $\frac{-2.5x}{-2.5} = \frac{20}{-2.5}$ Pos Neg

$x = -8$ Neg

$2.5\overline{)20.0}$

-20

0

$25\overline{)200}$

Oct 16-9:49 AM

Multiplication Property of Equality

Multiplying each side of an equation by the same nonzero number produces an equivalent equation.

Ex: $\frac{x}{3} = 12$ $\frac{3}{1} \cdot \frac{x}{3}$

If $\frac{x}{3} = 12$, then $3 * \frac{x}{3} = 12 * 3$

so, $x = 36$

Oct 5-7:33 AM

Solve: $\frac{a}{-7} = 5$

division by -7 "undo" multiply by -7

$\frac{-7}{1}\left(\frac{a}{-7}\right) = (5)-7$

$\frac{-7a}{-7} = -35$

$a = -35$

Oct 5-7:44 AM

Solve: $\frac{-y}{8.2} = 6$

division by 8.2

$\frac{8.2}{1} \cdot \frac{-y}{8.2} = 6 \cdot 8.2$

$-1\frac{-8.2y}{8.2} = 49.2$

$\frac{-1y}{-1} = \frac{49.2}{-1}$

$y = -49.2$

$8.2 \times 6 = 49.2$

Oct 5-7:44 AM

Solve the equation.

1. $-21 = \frac{x}{-9}$ $x = 189$

2. $\frac{x}{3.5} = 14$ $x = 49$

3. $\frac{-a}{8} = -6$ $a = 48$

Oct 14-8:41 AM

Ninety basketball players show up for a tournament. Write and solve an equation to find out how many five-person teams can be formed.

Oct 5-7:48 AM

A city bus can carry 40 commuters. Write and solve an equation to find the number of buses needed for 240 commuters.

Oct 14-11:25 AM

Exit Pass 3.2

1. $5c = -15$
2. $54 = -9x$
3. $-6 = \frac{-u}{4}$
4. $\frac{y}{-10} = 7$

Oct 6-2:31 PM

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

Working individually or with a partner, complete the worbook.

Workbook pg. 33 #1-21, 31

Oct 6-2:37 PM

Reflection of Today's Lesson

3.2 Solving Equations Using Multiplication or Division

7.NS
7.EE

- SWBAT solve equations using multiplication or division.
- SWBAT write a verbal sentence as an equation.
- SWBAT represent situations using algebraic symbols; analyze situations using algebraic symbols.

Oct 14-8:45 AM

Homework

pg. 115 #5-33 odds

Oct 6-2:37 PM