Quiz 5.5-5.6 Extra-Credit Question

Jacob has lived one fourth of his life in Michigan, one fifth of his life in Texas, one third of his life in Hawaii, and he has been living in Ohio for the past 13 years. How old is Jacob?

Remember: Clock P-Task due tomorrow!

$60x = \frac{1}{4}x + \frac{1}{5}x + \frac{1}{3}x + 13(60)$ LCD: 60

$60x = 15x + 12x + 20x + 780$

$60x = 47x + 780$

$-47x \quad -47x$

$13x = 780$

$x = 60$

60 years old

Do Now: Solve the equation.

1.) $47 = 8w + 7$ $w=5$

2.) $\frac{x}{2} - 3 = 1$ $x=8$

3.) $19 = 7 - 4p$ $p=-3$

4.) Negative eighteen minus the quotient of a number and five is negative thirty-seven

$-18 - \frac{n}{5} = -37$

$+18 \quad +18$

$-\frac{n}{5} = -19$

$-5\left(\frac{n}{-5}\right) = (-19)(-5)$

$n = 95$

$5\left(-\frac{n}{5}\right) = (-19)(5)$

$-n = -95$

$n = 95$

3.1 Solving Two-Step Equations

7.NS.1
7.NS.2
7.EE

- SWBAT solve two-step equations.
- SWBAT understand numbers; understand ways of representing numbers; compute fluently.

- Calculators: No

Tell whether the given value of the variable is a solution of the equation.

$\frac{x}{50} - 6 = -2; x = 200$ Yes or No

$\frac{200}{50} - 6 \stackrel{?}{=} -2$

$4 - 6 \stackrel{?}{=} -2$

$-2 = -2$

Yes x=200 is a solution

Tell whether the given value of the variable is a solution of the equation.

$16 - 6x = 10;\ x = -1$

$16 - 6(-1) = 10$

$16 + 6 = 10$

$22 = 10$

NO

Solve: $3x + 7 = -5$

$-7 \quad -7$

$\frac{3x}{3} = \frac{-12}{3}$

$x = -4$

Solve: $9 - 6a = 45$

Solve: $\frac{x}{4} - 2 = 1$

$+2 \quad +2$

$\frac{4}{1} \cdot \frac{x}{4} = 3(4)$

$x = 12$

Solve: $\frac{x}{5} + 8 = 3$

$-8 \quad -8$

$\frac{5}{1} \cdot \frac{x}{5} = -5(5)$

$x = -25$

Solve: $\frac{1}{5} \cdot \frac{x+8}{5} = \frac{3}{1}\frac{5}{1}$

$x + 8 = 15$

$-8 \quad -8$

$x = 7$

Your class has raised $755 for chairty. The charity provides farm animals that people can use to produce food. Your class plans to buy animals for a family recovering from an earthquake.

a.) One cow costs $500, and each flock of chickens costs $20. If your class buys one cow, how many flocks of chickens can your class buy?

b.) Your class can also buy pigs for $120 each. If your class buys a cow for $500, how many pigs can your class buy?

Exit Pass 3.1

If your class decides to buy the cow and pig, does your class have enough money to also buy a flock of chickens? If so, how many flocks can your class buy?

Explain why or why not.

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

Working individually or with a partner, complete the workbook.

Workbook pg. 31

#1-21 odds and #22-31 all

#2-20 evens and #22-31 all

Reflection of Today's Lesson

3.1 Solving Two-Step Equations

7.NS.1
7.NS.2
7.EE

- SWBAT solve two-step equations.
- SWBAT understand numbers; understand ways of representing numbers; compute fluently.

- Calculators: No

Homework

pg. 123 #8-26 (skip #20)

all