Get your laptop and log in!!! (If yours isn't working, take one not assigned to anybody)

Student	Computer Number	Student	Computer Number
Zilah DeBoard	1	A'yana Patton	12
Ryan Do	2	Matt Quarles	13
Tyler Drozdowski	3	Isabelle Robertson	14
Zyann Fisher	4	Nicolas Roston	15
Araceli Garcia Martinez	5	Abhi Singha	16
Bryan Hagan	6	Drake Souder	17
Emma Johnson	7	Lexi Spivak	18
Rachael Kim	8	Jenaleyse Waterman	19
Jack Komisar	9	Mia White	20
Helen Mohammad	10	Carlos Zaragoza Valdez	21
Jason Montini	11		

MAP TESTING

Go to "NWEA Lockdown Browser"

You may work on homework/etc. if you finish early.

When you are done, you may <u>NOT</u> go anywhere else on the laptop unless you ask permission.

WARMUP 8/ $(3^3 + 1) \div 2$

Whoops Wednesday!!!

For each, explain the mistake in the work shown. Then <u>fix</u> the mistake.

1) $24 = 15 - 3x$

$-15 \quad -15$

$9 = \boxed{3x}$ should be $-3x$

$\boxed{3 = x}$

2) $50 + 4x = 32 + 2x$

$\quad -2x \qquad\qquad -2x$

$50 + 2x = 32$

$-32 \qquad\qquad -32$ subtract 50 from both sides, not 32.

$18 = 2x$

$\boxed{9 = x}$

GOOD NEWS…

The brown worksheet is now due Friday.

I know you have some tests on Friday, so please don't leave ALL your classes until Thursday night!

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SOME FOR YOUR NOTES:

<u>SOLVE AND CHECK:</u>

-3x + 31 = 2x + 6

$$+3x \qquad\qquad +3x$$

$$31 = 5x + 6$$
$$-6 \qquad\qquad -6$$
$$\frac{25}{5} = \frac{5x}{5}$$

$$\boxed{5 = x}$$

CHECK

$$-3(5) + 31 = 2(5) + 6$$
$$-15 + 31 = 10 + 6$$
$$16 = 16 \checkmark$$

SOME FOR YOUR NOTES…

SOLVE

$$5x + 10 - 3x = 12 - 4x - 44$$

$2x + 10 = -32 - 4x$

$+4x \qquad\qquad +4x$

$6x + 10 = -32$

$-10 \qquad -10$

$\dfrac{6x}{6} = \dfrac{-42}{6}$

$\boxed{x = -7}$

$$4(2n + 3) = 20$$

2 ways to solve:

$$\frac{4(2n + 3)}{4} = \frac{20}{4}$$

$$2n + 3 = 5$$

$$\frac{-3 \qquad -3}{2n \qquad = 2}$$

$$n = 1$$

$$4(2n + 3) = 20$$

$$8n + 12 = 20$$

$$\frac{-12 \qquad -12}{8n \qquad = 8}$$

$$n = 1$$

6(3x – 2) = 24

1. Solve by distributing first:

$$18x - 12 = 24$$
$$ +12 \quad\quad +12$$
$$18x = 36$$
$$\frac{18x}{18} = \frac{36}{18}$$
$$\boxed{x = 2}$$

2. Solve by dividing by 6 first:

$$\frac{6(3x - 2)}{6} = \frac{24}{6}$$

$$3x - 2 = 4$$
$$ +2 \quad +2$$
$$3x = 6 \longrightarrow \boxed{x = 2}$$

SOLVE:

$$15\left(\frac{2}{5}x + 1\right) = 6\left(\frac{2}{3}x + 5\right)$$

$$\frac{3}{1}\frac{15}{1} \cdot \frac{2}{5}\frac{}{1} = \frac{3}{1} \cdot \frac{2}{1} = 6$$

$$\frac{6}{1} \cdot \frac{2}{3} = \frac{12}{3} = 4$$

$$6x + 15 = 4x + 30$$
$$-4x \qquad\qquad -4x$$
$$\overline{\qquad\qquad\qquad\qquad}$$
$$2x + 15 = 30$$
$$-15 \qquad -15$$
$$\overline{\qquad\qquad\qquad}$$
$$\frac{2x}{2} = \frac{15}{2}$$

$$\boxed{x = \frac{15}{2} \text{ or } 7\frac{1}{2} \text{ or } 7.5}$$

SOLVE:

$$10 - 4(2x - 9) = 30$$

$$10 - 8x + 36 = 30$$

$$46 - 8x = 30$$
$$-46 \qquad -46$$

$$\frac{-8x}{-8} = \frac{-16}{-8}$$

$$\boxed{x = 2}$$

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This is guided notes!!!

FRACTIONS???

$$\left(-\frac{4}{3}\right) \cdot -\frac{3}{4}x = 21 \cdot \left(-\frac{4}{3}\right)$$

$$-\frac{4}{3} \cdot -\frac{3}{4} = 1 \; !!!$$

$$\frac{21}{1} \cdot \frac{-4}{3} = -28$$

$$\boxed{x = -28}$$

$$\frac{2}{5}x - 10 = 20$$

$$+10 \qquad +10$$

$$\frac{5}{2} \cdot \frac{2}{5}x = 30 \cdot \frac{5}{2}$$

$$\boxed{x = 75}$$

$$-32 + \frac{2}{3}x = 2\frac{1}{3}x + 3$$

$$-32 + \frac{2}{3}x = \frac{7}{3}x + 3$$
$$-\frac{2}{3}x \qquad -\frac{2}{3}x$$

$$-32 \qquad = \frac{5}{3}x + 3$$
$$-3 \qquad\qquad -3$$

$$-35 \cdot \frac{3}{5} = \frac{3}{5} \cdot \frac{5}{3}x$$

$$\boxed{-21 = x}$$

$$8x - (-7 + 5x) = 11 + x$$

$$8x + 7 - 5x = 11 + x$$

$$3x + 7 = 11 + x$$
$$-x \qquad -7 \quad -x$$

$$2x = 4$$
$$\boxed{x = 2}$$

$$15 - \frac{7}{12}x = \frac{3}{4} \cdot \frac{3}{3} x - 1$$

$$15 - \frac{7}{12}\cancel{x} = \frac{9}{12}x - 1$$

$$+ \frac{7}{12}x \qquad + \frac{7}{12}x$$

$$15 = \frac{16}{12}x - 1$$

$$+1 \qquad\qquad +1$$

$$\frac{12}{16} \cdot 16 = \frac{12}{16} \cdot \frac{16}{12}x$$

$$\boxed{12 = x}$$

HOMEWORK

Worksheet (Now due Friday!)