Homework Set for Jan. 4-8 Name:_____

Honors

Monday

1. Simplify each expression.

a) $-b + 15b$ b) $5x - 12x$ c) $-8 - (-5a) - 3$

2. Simplify each expression.

a) $10(-8x + 5)$ b) $x + 5(x - 1)$ c) $-3(2r - 1) + r$

3. Solve each equation.

a) $g + 8g - 5 = -1$ b) $2c + 7.5c = 57$ c) $2(9x - 1) + 7(x + 6) = -60$

4. **Write an equation for the word problem and solve. (Must have equation and solution for credit)** The ages of four cousins are consecutive integers. The sum of their ages is 26. How old is each cousin? Write the ages in order from least to greatest.

5. **Write an equation for the word problem and solve. (Must have equation and solution for credit)** The perimeters of a square and an equilateral triangle add up to 77cm. Both figures have sides of the same length. How long is each side?

Tuesday

1. Simplify each expression.

a) $8a - (2a - 3)$ b) $6(y + 4) - 2y$ c) $-(4x - 4) + 3(-y + 4)$

2. Solve each equation.

a) $60 - 12b + 12 = 0$ b) $x + 2x + 3x - 7 = -25$ c) $\frac{1}{3}(6y - 9) = -2y + 13$

3. **Write an equation for the word problem and solve. (Must have equation and solution for credit)** DVD's and Blue ray movies are on sale for the same price. You buy 4 DVD's and 2 Blue rays. You also buy a video game for $16. The total bill is $82. How much does each DVD cost?

4. **Write an equation for the word problem and solve. (Must have equation and solution for credit)** Logan collected pledges for the charity walk-a-thon. He will receive total contributions of $68 plus $20 for every mile he walks. How many miles will he need to walk to raise $348?

5. **Write an equation for the word problem and solve. (Must have equation and solution for credit)** Jim, Jeff and Jon are brothers. Jim is 4 years older than Jon, and Jeff is 3 years younger than Jon. The sum of their ages is 64. How old is Jim?

Honors

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Wednesday

1. Solve each expression.

a) $\frac{2}{3}+\left(-\frac{5}{6}\right)$ b) $\left(-\frac{4}{5}\right)\bullet\ (-1\frac{7}{8})$ c) $\frac{12}{15}\div\ (-\frac{12}{20})$

2. Simplify each expression.

a) $2x(x+3)$ b) $-5a(2a-3)$ c) $-x(4x-10+12)$

3. Solve each equation.

a) $9-y+6y=-6$ b) $a+a+5+a+3=-1.24$

4. **Write an equation for the word problem and solve. (Must have equation and solution for credit)** Jasmine bought 6 books all at the same price. The tax on her purchase was $5.04, and the total was $85.74. What was the price of each book?

5. **Write an equation for the word problem and solve. (Must have equation and solution for credit)** During the spring car wash, the Activities Club washed 14 fewer cars than during the summer car wash. They washed a total of 96 cars during both car washes. How many cars did they wash during the summer car wash?

Thursday

1. Simplify each expression.

a) $-\frac{1}{2}(-x+4-12)$ b) $0.25(-12x+4)$ c) $3(-\frac{2}{5}+7y)$

2. Solve each equation.

a) $8-5x=-37$ b) $42=18-4y$ c) $13=\frac{w}{-3}-4$

3. Solve each equation.

a) $2t+8+\frac{1}{2}t-t=11$ b) $\frac{5}{2}r+2r+7-2=5$

4. **Write an equation for the word problem and solve. (Must have equation and solution for credit)** Find 3 consecutive even integers whose sum is 396.

5. **Write an equation for the word problem and solve. (Must have equation and solution for credit)** The Thorpe family took a vacation to Disney World that covered a total distance of 1356 miles. (That includes the trip there and the trip back). The trip back was 284 miles shorter than the trip there. How long was the trip to Disney World?