**Math 7: Expressions & Equations Unit Plan (Chapter 3)**

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| **Targets & Problems** | **Answer** | **Expert Initials** |
| **I can identify terms and like terms.**1. How many **terms** are in the following expression?$3x^{2}+3+7x+14-x^{2}+3-5x$
2. Use highlighters or colored pencils to identify the **like terms** in the following equations.
	1. $3x-4+7x+3-2x^{2 }$ b. $7-8b+24-17b-3$
 | 1.  |  |
|
| 2. See left |
|
| **I can combine like terms to simplify an expression.**Simplify the following expressions. 1. $3n+7-n-3$ 2. $3(2+d)=15$

 3. $6.4r-7-2.9r$ 4. $\frac{3}{5}x+19-\frac{3}{20}x-7$ | 1. |  |
| 2. |
| 3. |
| 4. |
| **I can add and subtract linear expressions.**Find the sum or difference.1. $(c-4)+(3c+9)$ 2. $2(5z+4)+(3z-6)$

 3. $(2r-13)-(-6r+4)$ 3. $(4x+3)-(2x-1)$ | 1. |  |
| 2. |
| 3. |
| 4.  |
| **Targets & Problems** | **Answer** | **Expert Initials** |
| **I can factor an expression.**Factor using the **Greatest Common Factor.**1. $15w+64$ 2. $36a + 16b$

Factor out the **coefficient** of the variable. 3. $\frac{3}{8}d+\frac{3}{4}$ 4. 6x - 18 | 1. |  |
| 2. |
| 3. |
| 4. |
| **I can write & solve a 1-step equation.**Solve.$p-3=-4$ $n+\frac{3}{4}=\frac{1}{4}$ $\frac{x}{3}= -8$ $-4x=-8$Write an equation then solve.A company makes a profit of $1.38 million. This is 2.54 million more than last year. What was the profit last year? | 1. |  |
| 2. |
| 3. |
| 4. |
| 5. See left |
| **I can write and solve a 2-step equation.**Solve.$2v+7=3$ $-6t-7=17$ $\frac{3}{5}g-\frac{1}{3}= -\frac{10}{3}$ $4+2.2h= -3.7$Write an equation and solve.It costs $2.50 to rent bowling shoes. Each game costs $2.25. You have $9.25. How many games can you bowl? | 1. |  |
| 2. |
| 3. |
| 4. |
| 5. See left |
| **I can use complete sentences and appropriate vocabulary to explain the answer to a mathematical question.**1. Gabby & Lauren have $12 between them. They need to take a taxi to meet their other friend who is 4 miles away. A taxi service charges an initial fee of $3.00 plus $1.80 per mile. Lauren says they can afford the taxi. Is this correct? Support your answer using words and numbers. Show your work in the space to the right.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Ryan and Claire are solving the equation $-3x + 7= -14$. Ryan says the answer is $x=7$. Claire says the answer is $x= -7.$ Who do you agree with and why? Explain using words andnumbers. Show your work in the space to the right.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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