**MATH HOMEWORK PACKET**

Number Theory

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| **Day** | **Homework Assignments** |
| Tuesday,  5/24 | **Fluency –** *(separate packet)*  **Content** *– Combining Like Terms* (pages 1) |
| Wednesday,  5/25 | **Fluency –** *(separate packet)*  **Content** *– One Step Equations* (pages 2) |
| Thursday,  5/26 | **Fluency –** *(separate packet)*  **Content** *–* *Multi Step Equations* (pages 3) |
| Friday,  5/27 | **Fluency –** *(separate packet)*  **Content** *–* *Equivalent Expressions* (pages 4-5) |

\*Please be sure to SHOW ALL OF YOUR WORK!

**FOR EXTRA HELP:**

**Visit the 6th grade website bvp2026.weebly.com OR call/text OR email us!**

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| **This packet will be collected during advisory on:  Tuesday, May 31, 2016** |

**Combining Like Terms**

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| **SWBAT** combine like terms |

Simplify by combining like terms.

Circle or box all of each kind of like term. Make sure to include the sign in front of each term!

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| 9(4x-2) -5x | k - 4k + 3 |
| -16 + -13(-12x-18) | 7 – 11y + 6 – 2y |
| -10s – 3s + 4s | -7(2-4) + x |
| 9g – 7 + 4g + 2 | 3 + (-3x + 8) – 12 |

**One Step Equations**

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| **SWBAT** solve one step equations |

**Directions:**  Solve each equation. Check your answers and SHOW YOUR WORK!

1. Solve. 50 + c= 93 **Check your work by substituting in the value you found.**
2. Solve. 87 - □= 818
3. Solve. m-463= 51
4. Solve. 41 + p = 90
5. Solve. b – =
6. Fix Ms. Emet’s mistake! Tell her what she did wrong and what the correct answer is:

Solve the following equation: v + 32= 40.

Add 32 on both sides, v=72.

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**Multi Step Equations**

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| **SWBAT** solve multi step equations |

**Directions**: Determine the value of each variable below. Be sure to SHOW ALL WORK.

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| 1. **k + 24 = 4k         k = \_\_\_\_\_\_** | 1. **8p = - p + 9         p = \_\_\_\_\_\_** |
| 1. **7b = 4 – b          b = \_\_\_\_\_\_  \*Hint: Your answer IS NOT 2.** | 1. **2d = 7 – d          d = \_\_\_\_\_\_** |
| 1. **4c = 4 – c         c = \_\_\_\_\_\_** | 1. **7g = 48 – g          g = \_\_\_\_\_\_** |
| 1. **v + 12 = 5v**   **v = \_\_\_\_\_** | 1. **30 + h = 11h         h = \_\_\_\_\_\_** |

**Equivalent Expressions**

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| **SWBAT** determine when, if ever, expressions are equivalent |

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| 6*m* – 2 = *m* + 13 | 4*y* + 9 = 4*y* - 7 | 3*c* + 2 = 3*c* + 2 |
| 3(*x* – 4) = 2*x* + 6 | -8*j* + 14 = -2(4*j* – 7) | 18*x* – 5 = 3(6*x* – 2) |
| -8*a* + 10 = 2(5 – 4*a*) | 9*x* + 3*x* – 10 = 3(3*x* + *x*) | 4*x* – 10 = *x* + 3*x* – 2*x* |

Solve each equation to determine if the two expressions are always equivalent, never equivalent, or equivalent for a certain value.

Using the chip model, find the sum or difference of each problem below. An example has been done for you.

-5 –(-6) 🡪 -5 + 6

- - - - - + + + + + +

**Rewrite as addition if needed. Then, use the positive and negative signs to show your work.**

**-4 + 8 = 5 -12= -3 + -7 + 4=**

**-10 + (-5) = -7 + 12 = 5 – 9 + 3 =**

From morning to afternoon the temperature went up 5 degrees, and then dropped 8 degrees by the next morning. What was the change in temperature from one day to the next?

While you were playing the video game Frogger you earned 10 points in the first round. The next round, you got hit by a car and lost 8 points, but then ate a fly and gained 2 points. A truck flattened you and you lost 8 points right before making it across the street for a second time. How many points did you have at the end of round two?