# Grade 7: Mathematics

## 10-day Extended Learning Plan

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| **Day 1** | • Order the values from least to greatest:<br>    -1,5,4,-8,1,12,-15<br>• Write out the symbols for: less than, greater than, and equal to<br>• Explain what absolute value is |
| **Day 2** | • Add the following:<br>  15+24<br>  -13+(-35)<br>  29+(-29)<br>  21+(-72)<br>• Explain in writing how you solved the equations. What did you need to know? What steps did you take? |
| **Day 3** | • Subtract the following:<br>  3-8<br>  4-(-5)<br>  -6-4<br>  -9-(-6)<br>• Answer the following question: Is subtracting integers harder than adding? Explain why or why not. |
| **Day 4** | • Write two different pairs of negative integers, x and y, that make the statement x-y=2 true. |
| **Day 5** | • Multiply the following:<br>  (-8)(-12)<br>  10(-14)<br>  -21(4)<br>  -15(-8)<br>• Two integers , *a* and *b,* have a product of -48<br>  -what is the greatest possible sum of *a* and  *b?*<br>  -what is the least possible difference of *a* and  *b?* |
| **Day 6** | • Explain what mean , median, and mode are<br>• Find the mean of the following integers:<br>  **5,-7,12,-10,15**<br>  **-16,-27,21,-19** |
| **Day 7** | • Write 10 rational numbers as decimals. Here is an example:<br>  **5/9=0.555555**<br>• *you choose your own rational numbers to convert as decimals |
| **Day 8** | • Give definitions to the following terms in your own words:<br>  irrational number , real number, integer, whole number |
| **Day 9** | • Simplify the expressions:<br>  6x+2x,14x-12-x-3,-5x+14-x-2,-3-5x-3x+11x+3<br>• Create 5 expressions like the ones above<br>• Simplify those that you have created |
| **Day 10** | • Create a quiz of 20 problems based on days 1-9 |