**Openers #1-1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

*Each day when you come into class, there will be a problem projected for you to complete. Find the appropriate box to complete the problem in and work on it when you arrive.*

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| **Date:** **\_\_\_\_ / \_\_\_\_/ \_\_\_\_** | 1-1**Name the property.**3 + 5 = 5 + 3 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_5 + -5 = 0 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_8 \* 1 = 8 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_3● (4 ●5) = (3 ● 4) ● 5 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_3(4 + 7) = 3●4 + 3●7 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_7 + 0 = 7 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_9 ● ($\frac{1}{9})=1$\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Date:** **\_\_\_\_ / \_\_\_\_/ \_\_\_** | 1-1-24x - 42x2 – 5x4x - 42x2 – 5xPositive integers, or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ numbers. 1, 2, 3, 4, …Nonnegative integers, or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ numbers. 0, 1, 2, 3, ……,-3,-2,-2,0,1,2,3,… is the set of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.A number that repeats or terminates is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ number.A number that is infinite and non-repeating is an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ number.The system of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ numbers consists of all rational and irrational numbers.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ numbers consist of a real number and an imaginary number. |
| **Date:** **\_\_\_\_ / \_\_\_\_/ \_\_\_** | 1-2Simplify. (x2yz3)(-2xz2)(x3y-2)Simplify. (3y3)4(4y2)-3Rewrite with rational exponents. $\sqrt[4]{x^{3}}$Rewrite as a radical. $8y^{\frac{1}{3}}$ |
| **Date:** **\_\_\_\_ / \_\_\_\_/ \_\_\_** | 1-2-2Simplify. $\sqrt[3]{(8a^{6}b^{-3})}$Simplify. $\sqrt{(x^{6}y^{4}})$Simplify. $\sqrt[6]{(2u^{-3}v^{4}})^{6}$ |
| **Date:** **\_\_\_\_ / \_\_\_\_/ \_\_\_** |  1-3Factor. 8c6 – 27d9Factor. 4x2 + 9Factor. 5x3 + 10x2 – 20x - 40 |
| **Date:** **\_\_\_\_ / \_\_\_\_/ \_\_\_** | 1-3-2Factor. 6x2 + 7x – 20 Factor. 12x2 – x – 6Factor. 7x2 + 10x - 8 |
| **Date:** **\_\_\_\_ / \_\_\_\_/ \_\_\_\_** | 1-4Simplify. $\frac{y^{2 }-25}{y^{3}-125}$Simplify. $\frac{2x^{2}+9x-5}{3x^{2 }+17x+10}$Simplify. $\frac{5}{x}- \frac{2x-1}{x^{2}}+ \frac{x+5}{x^{3}}$Rationalize. $\frac{\sqrt{x}+5}{\sqrt{x }-5}$ |
| **Date:** **\_\_\_\_ / \_\_\_\_/ \_\_\_\_** | 1-4-2$\frac{5a^{2}+12a+4}{a^{4}-16}$ $÷ \frac{25a^{2 }+20a+4}{a^{2 }-2a}$$$\frac{\frac{5}{x+1}+ \frac{2x}{x+3}}{\frac{x}{x+1}+ \frac{7}{x+3}}$$ |