

## Algebra 1 CP Summer Assignment

**\*Please read all the directions below. It tells you everything you need to know.**

- Students will be given a summer assignment, which will include simplifying expressions, evaluating expressions, and solving equations associated with the Real Number system.
- I would like to hold 2 help sessions in August, but due to the social distancing, I am not sure when they will be. If you have any questions, please e-mail me at [andrew.girouard@portlanddiocese.org](mailto:andrew.girouard@portlanddiocese.org)
- **All work must be shown.** NO CALCULATORS!!!! Otherwise, you will not get full credit.
- **This assignment will be turned in on the first day the class meets** and will be counted as a Quiz grade.
- Name, Date, Period, assignment in the top right-hand corner. **Do the assignment on loose leaf paper!!!! When finished, please staple this sheet to it!!!!**
- **\*\*Simplify fractions; keep fraction bars straight; don't leave negatives in the denominator; leave your answer in simplest form (it can be a top-heavy fraction); and when solving equations, your answer should be written as "(variable)  $\in$  { }"** (which is read "[variable] element set [answer]"). So it may look something like  $x \in \{ \}$ , or whatever the variable of the equation is.
- The book you will be using is Holt-McDougal Larson Algebra 1 (red with a kayaker on the front) 2009, ISBN-13: 978-0547315157. **\*\*DO NOT** get the Common Core edition!

I. Simplify. Reduce all fractions.

1.  $5 + (-7)$

2.  $3(-7)$

3.  $\frac{x+7^2}{12}$ , if  $x = -23$

4.  $\frac{1}{2} + \frac{7}{4}$

5.  $6\frac{4}{5} - 1\frac{2}{3}$

6.  $\frac{3}{4} \cdot \frac{6}{5}$

7.  $\frac{5}{4} \div \frac{3}{2}$

8.  $|-7.2| + |-5.6|$

9. a)  $-3^4$     b)  $(-3)^4$

10.  $\sqrt{81} - \sqrt{144}$

11.  $\sqrt{20}$

II. Solve each equation for  $x$ .

12.  $x + 3.7 = 5.2$

13.  $\frac{x}{3} = 4.6$

14.  $3x - 2 = -11$

15.  $\frac{3}{4}x + 5 = 2$

16.  $7 - \frac{3}{2}x = 5$

17.  $\frac{3x-3.1}{4} = 2.6$

18.  $4(3x + 7) - 5 = 3(2x - 1) - 2x$

19.  $\frac{3}{4}(5x + 4) = -12$