

## Geometry 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; 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 Geometry Concepts and Skills (2010) by Larson, Boswell, & Stiff, ISBN-13: 978-0547008356. **\*\*DO NOT** get the Common Core edition.

I. Evaluate each expression.

1.  $3x + 7$ , when  $x = -3$

2.  $7.3 - y$ , when  $y = -5.2$

3.  $\frac{3}{4} + 2x$ , when  $x = \frac{5}{6}$

4.  $\frac{7}{4}x$ , when  $x = -10$

II. Simplify the expression. Reduce all fractions.

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

6.  $\frac{3}{5} \div \frac{5}{6}$

7.  $\frac{3x-9}{3}$

8.  $\frac{3x-9}{12}$

9.  $3(4x - 7)$

10.  $-4p(2 - 5p)$

11.  $2(3x - 7) - 4(5 - x)$

12.  $3 - 7[2^2 - 9(-3 + 6)]$

III. Solve each equation for  $x$ .

13.  $3x - 5 = -14$

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

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

16.  $\frac{5}{7} = \frac{-10}{x}$

17.  $\frac{28}{x} = \frac{24}{x-5}$

18.  $\frac{x+8}{21} = \frac{x}{9}$

19.  $4(3x + 7) - 5 = 3(2x - 1) - 2x$

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