

# IC CATHOLIC PREP

## Supplies for Algebra 1

- 3 or 5 subject notebook for class notes
- pencils
- graphing calculator TI-84

## ALGEBRA I SUMMER REVIEW

This packet contains problems that we as a mathematics department feel you should know from previous math courses. It is important that you review these problems as they will appear throughout this course. We feel this will give you an advantage when beginning Algebra I and it will guide your teacher as to what you know and what you may need extra help on.

- **Must be completed by the 1<sup>st</sup> day of school**
- Begin working on this in early August
- **Look in old books or your Algebra 1 book for help**
- **Show work**
- **CALCULATORS NOT ALLOWED**
- You will be **tested** on this material the first week of school

MUST SHOW ALL WORK

I. Simplify the following.

1. 
$$\begin{array}{r} 24,397 \\ +18,274 \\ \hline \end{array}$$

2.  $34.6 - 2.53$

3. 
$$\begin{array}{r} 2,358 \\ \times 147 \\ \hline \end{array}$$

4.  $4862 \div 55$

5.  $2.6 \times 0.7$

6.  $4.95 \div 0.5$

II. Add or subtract the fractions. Change mixed fractions to improper fractions first. Make sure you have a common denominator.

7.  $\frac{1}{3} + \frac{4}{9}$

8.  $5\frac{1}{3} - 2\frac{1}{4}$

III. Multiply the following fractions. Change mixed fractions to improper fractions first. Multiply the numerators together and multiply the denominators together.

9.  $2\frac{1}{3} \times 1\frac{3}{4}$

10.  $-7\left(\frac{6}{35}\right)$

IV. Divide the following fractions. To divide fractions: keep the first fraction or number, change division to multiplication, then flip the second fraction and following instructions for multiplying fractions.

11.  $\frac{3}{4} \div \frac{4}{5}$

12.  $\frac{8}{4} - \frac{4}{5}$

V. Convert the following to a decimal.

13.  $\frac{8}{15}$

14. 24%

VI. Convert the following to a fraction.

15. 0.005

16. 65%

VII. Convert the following to a percent.

17.  $\frac{37}{100}$

18. 0.38