



## Pre-Algebra Summer Review

(for students who have **completed** Math 7/6 or an equivalent math class and are **entering** Pre-Algebra)

Reviewing key concepts from Pre-Algebra is an excellent way to be fully prepared for the pace and rigor of Algebra 1. The following packet will help you practice and also self-assess any concepts that you may want to spend extra time on before the start of school. You should not use any type of calculator while doing these problems. You will take a low-stakes diagnostic quiz on this material to identify any gaps in critical concepts. You will be given additional assignments to help you learn the material until you can demonstrate mastery.

If you would like additional resources to support your practice, we recommend Khan Academy as a great first step. For in-person support, consider a peer tutor or a more structured option such as Mathnasium. For a list of peer tutors who are willing to tutor over the summer for community service hours, please contact Linda Graham, Math Department Chair.

**Find the sum or difference.**

1.  $7.2 + 13.7$       2.  $2.41 + 34.6$       3.  $10.5 - 7.3$       4.  $27.1 - 18.6$

**Find the product or quotient.**

5.  $3.2 \times 1.4$       6.  $0.5 \times 27$       7.  $27.88 \div 8.2$       8.  $11.9 \div 1.7$

**Perform the indicate operation.**

9.  $-19 + 12$       10.  $8 - (-20)$       11.  $6(-7)$       12.  $-75 \div -5$

**Use the distributive property to write an equivalent equation.**

13.  $9(x - 4)$       14.  $8(z - 7)$       15.  $-6(-m + 12)$

**Simplify the expression.**

16.  $c + 4 - c$       17.  $9b - 12b + 3$       18.  $4(a + 2) + a$

**Find the sum or difference.**

19.  $\frac{4}{7} + \frac{2}{7}$       20.  $\frac{12}{25} - \frac{4}{25}$       21.  $\frac{7}{12} - \frac{5}{24}$       22.  $\frac{8}{21} + \frac{9}{14}$

**Find the product or quotient.**

23.  $\frac{18}{19} \times \frac{38}{27}$       24.  $\frac{6}{7} \div \frac{36}{77}$

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## Self-Check Answers

1. 20.9    2. 37.01    3. 3.2    4. 8.5    5. 4.48    6. 13.5

7. 3.4    8. 7    9. -7    10. 28    11. -42    12. 15

13.  $9x - 36$

14.  $8z - 56$

15.  $6m - 72$

16. 4    17.  $-3b + 3$     18.  $5a + 8$     19.  $\frac{6}{7}$     20.  $\frac{8}{25}$

21.  $\frac{9}{24}$  or  $\frac{3}{8}$     22.  $\frac{43}{42}$  or  $1\frac{1}{42}$     23.  $\frac{4}{3}$  or  $1\frac{1}{3}$     24.  $\frac{11}{6}$  or  $1\frac{5}{6}$