

RICHARD MONTGOMERY
SUMMER PACKET FOR
STUDENTS ENTERING ALGEBRA 1

NAME: _____

SCHOOL LAST YEAR _____

Directions: Solve each problem and show your work where possible. Wait until the middle of the summer before you start this so that the review is fresh in your mind. Most importantly, every problem in this packet can be solved **WITHOUT** a calculator. If you find that you need to use one, then that means you need more practice on that section.

There are many practice pre-Algebra websites on the internet. A good one to start with is:

Education.yahoo.com/homework_help/math_help/grades6and7

Or

Education.yahoo.com/homework_help/math_help/prealgebra

This packet will be collected during the first week of school, please have it ready to turn in.

We can't wait to meet you!

-Your RM Algebra Teachers

Review Topic One: Fractions

1) $\frac{3}{4} + \frac{7}{8}$

2) $\frac{3}{7} - \frac{2}{11}$

3) $2\frac{1}{2} + 5\frac{1}{2}$

4) $6 - \frac{3}{4}$

5) $\frac{2}{3} \cdot \frac{3}{5}$

6) $\frac{1}{2} \cdot \frac{1}{2}$

7) $\frac{10}{27} \cdot \frac{9}{40}$

8) $(\frac{2}{7})^2$

9) $\frac{3}{4} \div \frac{1}{4}$

10) $3\frac{2}{3} \div \frac{5}{6}$

Review Topic Two: Integers

1) $-3 + 7$

2) $-4 + -9$

3) $-3 + -8 + -1$

4) $6 - 13$

5) $-3 - 8$

6) $-1 - (-6)$

7) $-2 \cdot -7$

8) $(4) (-5)$

9) $(-2)(-6)(-1)(4)$

10) $-30 \div -5$

11) $-100 \div 2$

12) $4 \div -4$

Review Topic Three: Order of Operations

1) $5 + 6 \cdot -2$

2) $(4 - 6)^2$

3) $-1 \cdot -5 + 4 \div 2$

4) $7^2 - 2^2$

5) $5 - 2(3+8)^2$

6) $15 - 4 \cdot 8 \div -2$

7) $20 \div -10 \cdot 2 + 11^2$

8) $-25 - -25 + 0 \cdot -4 \cdot 6$

Review Topic Four: Evaluating Expressions

Evaluate the following expressions when $x = 4$.

1) $3 + x + 7 - 2$

2) $(9-x) + 2x$

2) $(16 \div x) - 3$

4) $5x - (2+x)$

Evaluate the following expressions when $x = 5$.

5) $3 + x + 4$

6) $3x - 2x$

7) $(4x \div 2) - 7$

8) $(8 - x) + (x - 4)$

Evaluate the following expressions when $x = 11$.

9) $6x \div 3$

10) $(55 \div x) - 6$

Review Topic Five: Combining like terms

1) $5 + 3x + 6 - x$

2) $4y - 5 + 3y - 6$

3) $r + 2 - 5 + 7 - 5r$

4) $5x - 2y - 2x + 6y$

5) $-15 - 3s - s + 2s$

6) $-4 - 3w + 9 + 8w$

7) $6t - 5s + 3s - 7t$

8) $-9v + 3 + 2v + 7v$

Review Topic Six: Solving One-Step Equations

1) $x + 8 = 12$

2) $x - 5 = 20$

3) $x - 14 = -21$

4) $9x = 27$

5) $-3x = 21$

6) $x/5 = 6$

7) $5 - x = 37$

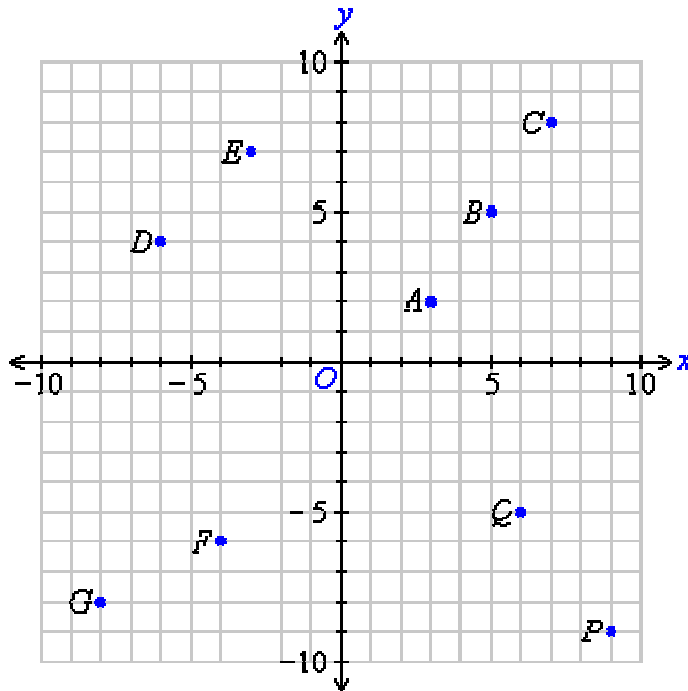
8) $-15x = 6$

9) $-x = 20$

10) $.25x = 4.75$

Review Topic Seven: Plotting Points

Plotting Pts:



Write the letter that is assigned to the points on the graph above:

1) (3,2) _____

2) (7,8) _____

3) (-6, 4) _____

4) (-3, 7) _____

5) (5,5) _____

6) (-4,-6) _____

7) (-8,-8) _____

8) (9, -9) _____

9) (6, -5) _____

Review Topic Eight: Solving Two-Step Equations

1) $2x - 5 = 11$

2) $3x - 4 = 14$

3) $-6x + 3 = -9$

4) $-4x + 5 = -15$

5) $45 - 13x = 58$

6) $28 - 32x = 92$

7) $x/3 + 10 = 15$

8) $x/7 - 4 = 2$

9) $29 - x = 37$

10) $21 + x/11 = 7$