

WATKINS MILL HS  
SUMMER REVIEW PACKET  
BRIDGE TO ALGEBRA 2  
DUE 3<sup>rd</sup> DAY OF CLASS  
IN AUGUST

# Bridge to Algebra 2

## Summer Review

Name \_\_\_\_\_

Show all work for full credit.

### 1. Combine like terms

a) $-9x+6+17x$	b) $-15n+2n+13n$
c) $-12-8x+4+10x$	d) $3x-7x^2-4x+3x^2$

### 2. Distribute

a) $-3(2y-6)$	b) $-2(2x+5y)$
c) $-(-x+2)$	d) $5(-4x+1)$

### 3. Distribute and combine like terms

a) $-3x+3(x-5)$	b) $2-5(3x+1)$
c) $-2(x-1)+7$	d) $-2(x-5)+3(4x+3)$
e) $2x-(3x-1)$	f) $6(x+3y)-2(3x-2y)$





4. Solve the one-step equations

a) $x - 7 = -10$	b) $9 + x = -7$
c) $-2x = -16$	d) $-\frac{x}{3} = 4$
e) $\frac{2}{3}x = -10$	f) $\frac{x}{5} = \frac{4}{15}$





5. Solve the two-step equations

a) $-3x - 5 = -14$	b) $-x + 5 = 0$
c) $\frac{1}{5}x - 3 = -7$	d) $6 - 2x = 6$
e) $-\frac{2}{5}x + 4 = -2$	f) $5 - \frac{x}{6} = -10$

6. Graph the following inequalities on a number line.

a) $x \geq -4$  	b) $-2 > x$  
c) $\frac{1}{3} \leq x$  	d) $x > \frac{5}{2}$  

7. Solve and graph the following inequalities.

a) $2x + 5 > 1$  	b) $6 - x \leq -1$  
c) $3x - 5x < 7$  	d) $3x - 2 > -5$  

8. Simplify the following fractions completely.

a) $\frac{3}{5} + \frac{1}{5} =$	b) $\frac{3}{4} + \frac{1}{3} =$
c) $\frac{1}{4} - \frac{7}{7} =$	d) $\frac{3}{4} \cdot \frac{8}{9} =$
e) $\frac{5}{3} \div \frac{2}{9} =$	f) $\frac{7}{2} \cdot \frac{4}{21} =$

9. Find the greatest common factor (GCF).

a) 18 and 54	b) 15 and 50
c) 27 and 72	d) 39 and 169
e) 24 and 144	f) 60 and 75