

**Mistakes are opportunities for learning.**

After Test 5 Review Assignment

**Solve each equation.**

1)  $-4(1 - 7x) = 20 + 4x$

2)  $15 + m = 5(3 + 7m)$

3)  $28 + 2v = -5(1 - 7v)$

4)  $-4(4k + 2) + 2 = 13 + 3k$

5)  $-7(v + 7) = -33 - 3v$

6)  $-22 + 8p = -7(-3p + 5)$

7)  $40 + 8x = 2(x - 1)$

8)  $-26 + 7a = -(2 + a) + 4a$

9)  $7 - 2(4 + m) = 3 - 3m$

10)  $-7(b + 6) = 4b - 9$

**Solve each proportion.**

11)  $\frac{8}{v} = \frac{6}{2}$

12)  $\frac{10}{6} = \frac{5}{7m}$

13)  $\frac{7}{6} = \frac{3}{k - 8}$

14)  $\frac{8}{3} = \frac{3}{x - 9}$

**Simplify. Your answer should contain only positive exponents.**

15)  $x^2 \cdot 2x$

16)  $x^3 \cdot 3x^3$

17)  $2xx^3 \cdot 3x^2$

18)  $\frac{2m^2 \cdot 3m^2}{(2m^3)^3}$

19)  $\frac{(2x^3)^2}{(3x \cdot (3x)^3)^2}$

20)  $\frac{(3n)^2}{(n^0)^3 \cdot 2n^3}$