

**7-1****HOMWORK Practice**

Form K

## Zero and Negative Exponents

**Simplify each expression.**

1.  $37^0$

2.  $3^{-4}$

3.  $\frac{5}{5^{-2}}$

4.  $\frac{3}{6^{-1}}$

5.  $-(5)^{-2}$

6.  $112^{-1}$

7.  $-11^0$

8.  $-(7n)^{-2}$

9.  $-(15p)^0$

10.  $\left(\frac{3}{5}\right)^{-2}$

11.  $4x^{-3}y^0$

12.  $\frac{8m^{-2}}{4n^{-1}}$

13.  $\frac{-6a^{-2}(bc)^2}{d^{-4}}$

14.  $\left(\frac{5s}{6t}\right)^{-2}$

15.  $4^{-2}h^{-4}j^3$

16.  $-(6yz)^{-2}x^0$

17.  $\frac{10fg^{-5}h^0}{h^{-2}}$

18.  $\frac{6t^{-1}}{11(uv)^{-3}w^4}$

**ANSWER KEY**

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

**7-1****Practice**

Form K

## Zero and Negative Exponents

Simplify each expression.

1.  $37^0$  1

2.  $3^{-4}$   $\frac{1}{81}$

3.  $\frac{5}{5^{-2}}$  125

4.  $\frac{3}{6^{-1}}$  18

5.  $-(5)^{-2}$   $-\frac{1}{25}$

6.  $112^{-1}$   $\frac{1}{112}$

7.  $-11^0$  -1

8.  $-(7n)^{-2}$   $-\frac{1}{49n^2}$

9.  $-(15p)^0$  -1

10.  $\left(\frac{3}{5}\right)^{-2}$   $\frac{25}{9}$

11.  $4x^{-3}y^0$   $\frac{4}{x^3}$

12.  $\frac{8m^{-2}}{4n^{-1}}$   $\frac{2n}{m^2}$

13.  $\frac{-6a^{-2}(bc)^2}{d^{-4}}$   $-\frac{6b^2c^2d^4}{a^2}$

14.  $\left(\frac{5s}{6t}\right)^{-2}$   $\frac{36t^2}{25s^2}$

15.  $4^{-2}h^{-4}j^3$   $\frac{j^3}{16h^4}$

16.  $-(6yz)^{-2}x^0$   $-\frac{1}{36y^2z^2}$

17.  $\frac{10fg^{-5}h^0}{h^{-2}}$   $\frac{10fh^2}{g^5}$

18.  $\frac{6t^{-1}}{11(uv)^{-3}w^4}$   $\frac{6u^3v^3}{11tw^4}$