

# Evaluate the Exponents

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Solve the following expressions.

1)  $2^{-16} =$  \_\_\_\_\_

2)  $3^{-12} =$  \_\_\_\_\_

3)  $8^{-6} =$  \_\_\_\_\_

4)  $5^{-8} =$  \_\_\_\_\_

5)  $4^{-9} =$  \_\_\_\_\_

6)  $32^0 =$  \_\_\_\_\_

7)  $1^{-20} =$  \_\_\_\_\_

8)  $2^{-14} =$  \_\_\_\_\_

9)  $14^{-3} =$  \_\_\_\_\_

10)  $4^{-7} =$  \_\_\_\_\_

11)  $27^{-2} =$  \_\_\_\_\_

12)  $1^{-20} =$  \_\_\_\_\_

13)  $50^0 =$  \_\_\_\_\_

14)  $10^{-5} =$  \_\_\_\_\_

15)  $37^{-2} =$  \_\_\_\_\_

16)  $3^{-8} =$  \_\_\_\_\_

# Evaluate the Exponents

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Date: \_\_\_\_\_

Solve the following expressions.

$$1) \quad 2^{-16} = \frac{\left(\frac{1}{65536}\right)}{\underline{\hspace{2cm}}}$$

$$2) \quad 3^{-12} = \frac{\left(\frac{1}{531441}\right)}{\underline{\hspace{2cm}}}$$

$$3) \quad 8^{-6} = \frac{\left(\frac{1}{262144}\right)}{\underline{\hspace{2cm}}}$$

$$4) \quad 5^{-8} = \frac{\left(\frac{1}{390625}\right)}{\underline{\hspace{2cm}}}$$

$$5) \quad 4^{-9} = \frac{\left(\frac{1}{262144}\right)}{\underline{\hspace{2cm}}}$$

$$6) \quad 32^0 = \frac{1}{\underline{\hspace{2cm}}}$$

$$7) \quad 1^{-20} = \frac{1}{\underline{\hspace{2cm}}}$$

$$8) \quad 2^{-14} = \frac{\left(\frac{1}{16384}\right)}{\underline{\hspace{2cm}}}$$

$$9) \quad 14^{-3} = \frac{\left(\frac{1}{2744}\right)}{\underline{\hspace{2cm}}}$$

$$10) \quad 4^{-7} = \frac{\left(\frac{1}{16384}\right)}{\underline{\hspace{2cm}}}$$

$$11) \quad 27^{-2} = \frac{\left(\frac{1}{729}\right)}{\underline{\hspace{2cm}}}$$

$$12) \quad 1^{-20} = \frac{1}{\underline{\hspace{2cm}}}$$

$$13) \quad 50^0 = \frac{1}{\underline{\hspace{2cm}}}$$

$$14) \quad 10^{-5} = \frac{\left(\frac{1}{100000}\right)}{\underline{\hspace{2cm}}}$$

$$15) \quad 37^{-2} = \frac{\left(\frac{1}{1369}\right)}{\underline{\hspace{2cm}}}$$

$$16) \quad 3^{-8} = \frac{\left(\frac{1}{6561}\right)}{\underline{\hspace{2cm}}}$$