

Evaluate the Exponents

Name: _____

Date: _____

Solve the following expressions.

1) $2^{-20} =$ _____

2) $2^{-15} =$ _____

3) $10^{-3} =$ _____

4) $4^{-8} =$ _____

5) $4^{-9} =$ _____

6) $12^{-4} =$ _____

7) $1^{-18} =$ _____

8) $2^{-17} =$ _____

9) $5^{-7} =$ _____

10) $24^{-3} =$ _____

11) $7^{-6} =$ _____

12) $1^{-12} =$ _____

13) $48^0 =$ _____

14) $18^{-3} =$ _____

15) $27^{-3} =$ _____

16) $30^{-3} =$ _____

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Solve the following expressions.

$$1) \quad 2^{-20} = \frac{\left(\frac{1}{1048576}\right)}{\underline{\hspace{2cm}}}$$

$$2) \quad 2^{-15} = \frac{\left(\frac{1}{32768}\right)}{\underline{\hspace{2cm}}}$$

$$3) \quad 10^{-3} = \frac{\left(\frac{1}{1000}\right)}{\underline{\hspace{2cm}}}$$

$$4) \quad 4^{-8} = \frac{\left(\frac{1}{65536}\right)}{\underline{\hspace{2cm}}}$$

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

$$6) \quad 12^{-4} = \frac{\left(\frac{1}{20736}\right)}{\underline{\hspace{2cm}}}$$

$$7) \quad 1^{-18} = \frac{1}{\underline{\hspace{2cm}}}$$

$$8) \quad 2^{-17} = \frac{\left(\frac{1}{131072}\right)}{\underline{\hspace{2cm}}}$$

$$9) \quad 5^{-7} = \frac{\left(\frac{1}{78125}\right)}{\underline{\hspace{2cm}}}$$

$$10) \quad 24^{-3} = \frac{\left(\frac{1}{13824}\right)}{\underline{\hspace{2cm}}}$$

$$11) \quad 7^{-6} = \frac{\left(\frac{1}{117649}\right)}{\underline{\hspace{2cm}}}$$

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

$$13) \quad 48^0 = \frac{1}{\underline{\hspace{2cm}}}$$

$$14) \quad 18^{-3} = \frac{\left(\frac{1}{5832}\right)}{\underline{\hspace{2cm}}}$$

$$15) \quad 27^{-3} = \frac{\left(\frac{1}{19683}\right)}{\underline{\hspace{2cm}}}$$

$$16) \quad 30^{-3} = \frac{\left(\frac{1}{27000}\right)}{\underline{\hspace{2cm}}}$$