

Evaluate the Exponents

Name: _____

Date: _____

Solve the following expressions.

1) $0.2^{-4} =$ _____

2) $\left(\frac{8}{9}\right)^{-2} =$ _____

3) $6^{-3} =$ _____

4) $0.005^{-2} =$ _____

5) $\left(\frac{2}{6}\right)^{-2} =$ _____

6) $0.10^{-2} =$ _____

7) $4^{-2} =$ _____

8) $0.25^{-3} =$ _____

9) $0.25^{-2} =$ _____

10) $5^{-2} =$ _____

11) $\left(\frac{4}{3}\right)^{-2} =$ _____

12) $14^{-2} =$ _____

13) $2.5^{-2} =$ _____

14) $0.2^{-4} =$ _____

15) $8^{-3} =$ _____

16) $\left(\frac{7}{3}\right)^{-3} =$ _____

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Solve the following expressions.

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|-----|---------------------------------|---|------------------------------------------------|-----|---------------------------------|---|-------------------------------------------------|
| 1) | 0.2^{-4} | = | <u>625</u> | 2) | $\left(\frac{8}{9}\right)^{-2}$ | = | <u>$\left(\frac{81}{64}\right)$</u> |
| 3) | 6^{-3} | = | <u>$\left(\frac{1}{216}\right)$</u> | 4) | 0.005^{-2} | = | <u>40000</u> |
| 5) | $\left(\frac{2}{6}\right)^{-2}$ | = | <u>9</u> | 6) | 0.10^{-2} | = | <u>100</u> |
| 7) | 4^{-2} | = | <u>$\left(\frac{1}{16}\right)$</u> | 8) | 0.25^{-3} | = | <u>64</u> |
| 9) | 0.25^{-2} | = | <u>16</u> | 10) | 5^{-2} | = | <u>$\left(\frac{1}{25}\right)$</u> |
| 11) | $\left(\frac{4}{3}\right)^{-2}$ | = | <u>$\left(\frac{9}{16}\right)$</u> | 12) | 14^{-2} | = | <u>$\left(\frac{1}{196}\right)$</u> |
| 13) | 2.5^{-2} | = | <u>0.16</u> | 14) | 0.2^{-4} | = | <u>625</u> |
| 15) | 8^{-3} | = | <u>$\left(\frac{1}{512}\right)$</u> | 16) | $\left(\frac{7}{3}\right)^{-3}$ | = | <u>$\left(\frac{27}{343}\right)$</u> |