

Evaluate the Exponents

Name: _____

Date: _____

Solve the following expressions.

1) $3^3 + 1.5^3$ = _____

2) $\left(\frac{5}{5}\right)^2 \times \left(\frac{5}{2}\right)^3$ = _____

3) $4 - 0.75^3$ = _____

4) $2^{10} + \left(\frac{4}{9}\right)^2$ = _____

5) $\left(\frac{4}{5}\right)^2 - \left(\frac{3}{5}\right)^3$ = _____

6) $0.8^2 \times \left(\frac{3}{5}\right)^2$ = _____

7) $\left(\frac{7}{8}\right)^2 \times 4^2$ = _____

8) $6^3 \div (2.4)^2$ = _____

9) $\left(\frac{6}{2}\right)^2 - 0.3^2$ = _____

10) $0.12^1 \times 5^3$ = _____

11) $\left(\frac{8}{7}\right)^2 + \left(\frac{1}{7}\right)^3$ = _____

12) $6^5 \div \left(\frac{2}{5}\right)^2$ = _____

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Solve the following expressions.

$$1) \quad 3^3 + 1.5^3 = \underline{30.375}$$

$$2) \quad \left(\frac{5}{5}\right)^2 \times \left(\frac{5}{2}\right)^3 = \underline{\frac{125}{8}}$$

$$3) \quad 4 - 0.75^3 = \underline{3.57}$$

$$4) \quad 2^{10} + \left(\frac{4}{9}\right)^2 = \underline{\left(\frac{82960}{81}\right)}$$

$$5) \quad \left(\frac{4}{5}\right)^2 - \left(\frac{3}{5}\right)^3 = \underline{\frac{53}{125}}$$

$$6) \quad 0.8^2 \times \left(\frac{3}{5}\right)^2 = \underline{0.2304}$$

$$7) \quad \left(\frac{7}{8}\right)^2 \times 4^2 = \underline{\frac{49}{4}}$$

$$8) \quad 6^3 \div (2.4)^2 = \underline{37.5}$$

$$9) \quad \left(\frac{6}{2}\right)^2 - 0.3^2 = \underline{8.91}$$

$$10) \quad 0.12^1 \times 5^3 = \underline{15}$$

$$11) \quad \left(\frac{8}{7}\right)^2 + \left(\frac{1}{7}\right)^3 = \underline{\left(\frac{449}{343}\right)}$$

$$12) \quad 6^5 \div \left(\frac{2}{5}\right)^2 = \underline{48600}$$