

Evaluate the Exponents

Name: _____

Date: _____

Rewrite in Exponent Form

1) $4^6 \times 3^4 \times 4^2 \times 3^3 = 4^? \times 3^?$ = _____

2) $9^6 = 3^?$ = _____

3) $8^0 \times 8^3 \times 8^4 \times 10^2 \times 10^3 = 8^? \times 10^?$ = _____

4) $121^2 = 11^?$ = _____

5) $64^2 \times 8^3 = 8^?$ = _____

6) $6^0 \times 9^2 \times 6^3 \times 9^4 = 6^? \times 9^?$ = _____

7) $8^4 \times 8^3 = 8^?$ = _____

8) $9^2 \times 9^5 \times 9^1 \times 8^3 \times 8^4 = 9^? \times 8^?$ = _____

9) $16^6 \times 4^5 = 4^?$ = _____

10) $6^7 \times 7^2 \times 6^1 \times 7^4 = 6^? \times 7^?$ = _____

11) $9^2 \times 9^3 = 9^?$ = _____

12) $9^3 = 3^?$ = _____

13) $7^3 \times 7^7 = 7^?$ = _____

14) $3^4 \times 3^2 \times 3^0 \times 5^3 \times 5^4 = 3^? \times 5^?$ = _____

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Rewrite in Exponent Form

$$1) \quad 4^6 \times 3^4 \times 4^2 \times 3^3 = 4^? \times 3^? \quad = \quad \frac{4^8 \times 3^7}{\quad}$$

$$2) \quad 9^6 = 3^? \quad = \quad \frac{12}{\quad}$$

$$3) \quad 8^0 \times 8^3 \times 8^4 \times 10^2 \times 10^3 = 8^? \times 10^? \quad = \quad \frac{8^7 \times 10^5}{\quad}$$

$$4) \quad 121^2 = 11^? \quad = \quad \frac{4}{\quad}$$

$$5) \quad 64^2 \times 8^3 = 8^? \quad = \quad \frac{7}{\quad}$$

$$6) \quad 6^0 \times 9^2 \times 6^3 \times 9^4 = 6^? \times 9^? \quad = \quad \frac{6^3 \times 9^6}{\quad}$$

$$7) \quad 8^4 \times 8^3 = 8^? \quad = \quad \frac{7}{\quad}$$

$$8) \quad 9^2 \times 9^5 \times 9^1 \times 8^3 \times 8^4 = 9^? \times 8^? \quad = \quad \frac{9^8 \times 8^7}{\quad}$$

$$9) \quad 16^6 \times 4^5 = 4^? \quad = \quad \frac{17}{\quad}$$

$$10) \quad 6^7 \times 7^2 \times 6^1 \times 7^4 = 6^? \times 7^? \quad = \quad \frac{6^8 \times 7^6}{\quad}$$

$$11) \quad 9^2 \times 9^3 = 9^? \quad = \quad \frac{5}{\quad}$$

$$12) \quad 9^3 = 3^? \quad = \quad \frac{6}{\quad}$$

$$13) \quad 7^3 \times 7^7 = 7^? \quad = \quad \frac{10}{\quad}$$

$$14) \quad 3^4 \times 3^2 \times 3^0 \times 5^3 \times 5^4 = 3^? \times 5^? \quad = \quad \frac{3^6 \times 5^7}{\quad}$$