MathVine - Pre-Algebra Name_____

Dividing Exponents Date_____ Period_____

Divide.

1) $\frac{8^{-4}}{8^{0}}$

2) $\frac{n^{2}}{n^{-5}}$

3) $\frac{4^{-2}}{4^{-4}}$

4) $\frac{k^{1}}{k^{5}}$

5) $\frac{5^{-2}}{5^{-3}}$

6) $\frac{2^{-3}}{2^{0}}$

7) $\frac{e^{4}}{e^{2}}$

8) $\frac{4^{-5}}{4^{2}}$

9) $\frac{w^{-4}}{w^{1}}$

10) $\frac{e^{5}}{e^{-1}}$

11) $\frac{6^{4}}{6^{1}}$

12) $\frac{q^{3}}{q^{-5}}$

13) $\frac{3^{3}}{3^{-4}}$

14) $\frac{t^{-3}}{t^{4}}$

15) $\frac{v^{1}}{v^{-5}}$

16) $\frac{3^{3}}{3^{1}}$

MathVine - Pre-Algebra Name_____

Dividing Exponents Date_____ Period_____

Divide.

1) $\frac{8^{-4}}{8^{0}}$

Answer: 8^{-4}

2) $\frac{n^{2}}{n^{-5}}$

Answer: n^{7}

3) $\frac{4^{-2}}{4^{-4}}$

Answer: 4^{2}

4) $\frac{k^{1}}{k^{5}}$

Answer: k^{-4}

5) $\frac{5^{-2}}{5^{-3}}$

Answer: 5^{1}

6) $\frac{2^{-3}}{2^{0}}$

Answer: 2^{-3}

7) $\frac{e^{4}}{e^{2}}$

Answer: e^{2}

8) $\frac{4^{-5}}{4^{2}}$

Answer: 4^{-7}

9) $\frac{w^{-4}}{w^{1}}$

Answer: w^{-5}

10) $\frac{e^{5}}{e^{-1}}$

Answer: e^{6}

11) $\frac{6^{4}}{6^{1}}$

Answer: 6^{3}

12) $\frac{q^{3}}{q^{-5}}$

Answer: q^{8}

13) $\frac{3^{3}}{3^{-4}}$

Answer: 3^{7}

14) $\frac{t^{-3}}{t^{4}}$

Answer: t^{-7}

15) $\frac{v^{1}}{v^{-5}}$

Answer: v^{6}

16) $\frac{3^{3}}{3^{1}}$

Answer: 3^{2}

MathVine - Pre-Algebra

Name_____

Dividing Exponents

Date_____ Period_____

Solution Steps

1) $\frac{8^{-4}}{8^{0}}$

When dividing exponents with like bases, you subtract the exponents

$\frac{8^{-4}}{8^{0}}$

8^{-4-0}

2) $\frac{n^{2}}{n^{-5}}$

When dividing exponents with like bases, you subtract the exponents

$\frac{n^{2}}{n^{-5}}$

$n^{2-(-5)}$

3) $\frac{4^{-2}}{4^{-4}}$

When dividing exponents with like bases, you subtract the exponents

$\frac{4^{-2}}{4^{-4}}$

$4^{-2-(-4)}$

4) $\frac{k^{1}}{k^{5}}$

When dividing exponents with like bases, you subtract the exponents

$\frac{k^{1}}{k^{5}}$

k^{1-5}

5) $\frac{5^{-2}}{5^{-3}}$

When dividing exponents with like bases, you subtract the exponents

$\frac{5^{-2}}{5^{-3}}$

$5^{-2-(-3)}$

6) $\frac{2^{-3}}{2^{0}}$

When dividing exponents with like bases, you subtract the exponents

$\frac{2^{-3}}{2^{0}}$

2^{-3-0}

7) $\frac{e^{4}}{e^{2}}$

When dividing exponents with like bases, you subtract the exponents

$\frac{e^{4}}{e^{2}}$

e^{4-2}

8) $\frac{4^{-5}}{4^{2}}$

When dividing exponents with like bases, you subtract the exponents

$\frac{4^{-5}}{4^{2}}$

4^{-5-2}

9) $\frac{w^{-4}}{w^{1}}$

When dividing exponents with like bases, you subtract the exponents

$\frac{w^{-4}}{w^{1}}$

w^{-4-1}

10) $\frac{e^{5}}{e^{-1}}$

When dividing exponents with like bases, you subtract the exponents

$\frac{e^{5}}{e^{-1}}$

$e^{5-(-1)}$

11) $\frac{6^{4}}{6^{1}}$

When dividing exponents with like bases, you subtract the exponents

$\frac{6^{4}}{6^{1}}$

6^{4-1}

12) $\frac{q^{3}}{q^{-5}}$

When dividing exponents with like bases, you subtract the exponents

$\frac{q^{3}}{q^{-5}}$

$q^{3-(-5)}$

13) $\frac{3^{3}}{3^{-4}}$

When dividing exponents with like bases, you subtract the exponents

$\frac{3^{3}}{3^{-4}}$

$3^{3-(-4)}$

14) $\frac{t^{-3}}{t^{4}}$

When dividing exponents with like bases, you subtract the exponents

$\frac{t^{-3}}{t^{4}}$

t^{-3-4}

15) $\frac{v^{1}}{v^{-5}}$

When dividing exponents with like bases, you subtract the exponents

$\frac{v^{1}}{v^{-5}}$

$v^{1-(-5)}$

16) $\frac{3^{3}}{3^{1}}$

When dividing exponents with like bases, you subtract the exponents

$\frac{3^{3}}{3^{1}}$

3^{3-1}