

Exponents Take 2 Worksheet

Name: _____

Evaluate the expression. Write down which exponent property you used. Write your answer using exponents and as a simplified fraction. NO DECIMALS.

1.) $2^3 \cdot 2^2$

2.) $(3^2)^4$

Exponent property: _____

Exponent property: _____

Answer using exponents: _____

Answer using exponents: _____

Simplified answer: _____

Simplified answer: _____

3.) $\frac{5^7}{5^5}$

4.) $(-17)^0$

Exponent property: _____

Exponent property: _____

Answer using exponents: _____

Answer using exponents: _____

Simplified answer: _____

Simplified answer: _____

5.) 5^{-3}

6.) $\frac{1}{7^{-2}}$

Exponent property: _____

Exponent property: _____

Answer using exponents: _____

Answer using exponents: _____

Simplified answer: _____

Simplified answer: _____

Simplify the expression. Write down each exponent property you used.

7.) $(6x)^2$

8.) $8x^{-9}$

Exponent properties: _____

Exponent properties: _____

Simplified answer: _____

Simplified answer: _____

9.) $\left(\frac{x^2}{y}\right)^3$

10.) $\frac{3x^3y^2}{9xy^5}$

Exponent properties: _____

Exponent properties: _____

Simplified answer: _____

Simplified answer: _____

11.) $(3ab)^3$

12.) $3a^7 \cdot a^{-4}$

Exponent properties: _____

Exponent properties: _____

Simplified answer: _____

Simplified answer: _____

13.) $\left(\frac{x}{y}\right)^{-1}$

14.) $(2x^3y)^2 \cdot (3xy)^3$

Exponent properties: _____

Exponent properties: _____

Simplified answer: _____

Simplified answer: _____