

Don't forget to assess yourself!

Name: _____ Hour: _____

Standard: 8.EE.1 Know and apply the properties of integer exponents to generate equivalent numerical expressions.

/4

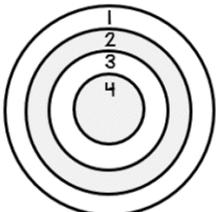
Directions: Simplify each problem below. Show work as necessary. Circle your answer.

1.) $\frac{4x^4}{(x^{-1})^3}$

2.) $(b^{-2})^2 \cdot (b^4)^3$

Directions: Write three equivalent expressions to the given expression using exponents.

3.) x^3y^4



Don't forget to assess yourself!

Name: _____ Hour: _____

Standard: 8.EE.1 Know and apply the properties of integer exponents to generate equivalent numerical expressions.

/4

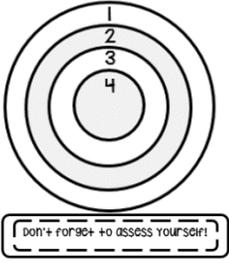
Directions: Simplify each problem below. Show work as necessary. Circle your answer.

1.) $\frac{4x^4}{(x^{-1})^3}$

2.) $(b^{-2})^2 \cdot (b^4)^3$

Directions: Write three equivalent expressions to the given expression using exponents.

3.) x^3y^4



Name: _____ Hour: _____

Standard: A-SSE.3c. Use the properties of exponents to transform expressions for exponential functions.

/4

Directions: Simplify the exponential expression.

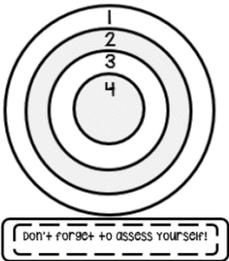
1.) $(a + b)^2(a + b)^{-3}$

2.) $\frac{(2a^7)(3a^2)}{6a^3}$

Directions: Complete the equation by filling the box with the correct number.

3.) $(3x^3y^{\square})^3 = 27x^9$

4.) $(m^2n^3)^{\square} = \frac{1}{m^6n^9}$



Name: _____ Hour: _____

Standard: A-SSE.3c. Use the properties of exponents to transform expressions for exponential functions.

/4

Directions: Simplify the exponential expression.

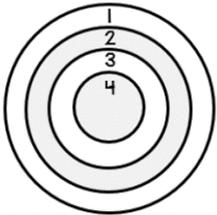
1.) $(a + b)^2(a + b)^{-3}$

2.) $\frac{(2a^7)(3a^2)}{6a^3}$

Directions: Complete the equation by filling the box with the correct number.

3.) $(3x^3y^{\square})^3 = 27x^9$

4.) $(m^2n^3)^{\square} = \frac{1}{m^6n^9}$



Don't forget to assess yourself!

Name: _____ Hour: _____

Standard: 8.EE.4 Perform operations with numbers expressed in scientific notation.

/4

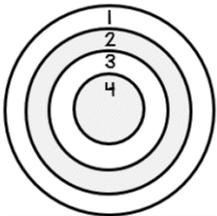
Directions: Solve using operations with scientific notation. Show work as necessary.

Circle your answer.

1.) $(6 \times 10^3)(3.3 \times 10^2)$

2.) $(5.02 \times 10^{-6}) - (4.3 \times 10^{-6})$

3.) The following scientific notations represent three test tube volumes: 1×10^{-2} , 2.6×10^{-2} , and 4×10^{-3} . Find the sum of the three volumes.



Don't forget to assess yourself!

Name: _____ Hour: _____

Standard: 8.EE.4 Perform operations with numbers expressed in scientific notation.

/4

Directions: Solve using operations with scientific notation. Show work as necessary.

Circle your answer.

1.) $(6 \times 10^3)(3.3 \times 10^2)$

2.) $(5.02 \times 10^{-6}) - (4.3 \times 10^{-6})$

3.) The following scientific notations represent three test tube volumes: 1×10^{-2} , 2.6×10^{-2} , and 4×10^{-3} . Find the sum of the three volumes.