

Name _____

Common Core Standard 8.EE.A.1 – Expressions and Equations

 Write the expanded form for the following exponent: $(-12)^4$. Be sure to show your work.

- A 1728
- B $(-12) \times (-12) \times (-12) \times (-12)$
- C $12 \times 12 \times 12 \times 12$
- D $(-12) \times (-12) \times (-12) \times (-12) \times (-12)$

Common Core Standard 8.EE.A.1 – Expressions and Equations

 Which option below is equivalent to $9^4 \times 5^{-2}$? Be sure to show your work.

- A 45^2
- B $9 \times 9 \times 9 \times 9 \times 5 \times 5$
- C $9 \times 9 \times 9 \times 9 \times \frac{1}{5} \times \frac{1}{5}$
- D $9 \times 9 \times 9 \times 9 \times (-5) \times (-5)$

Common Core Standard 8.EE.A.1 – Expressions and Equations

 Evaluate the exponential expression. Be sure to show your work.

$$\frac{3^5}{6^2} - \frac{2^{-2}}{13^{-1}} = \square$$

- A $\frac{972}{468}$
- B $\frac{7}{2}$
- C $\frac{60}{78}$
- D $\frac{9}{4}$

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 Evaluate the exponential expression. Be sure to show your work.

$$7^4 \times 7^{-6} \times 14 = \square$$

A $\frac{2}{7}$

B $\frac{3}{14}$

C $\frac{7}{2}$

D $\frac{3}{7}$

Common Core Standard 8.EE.A.1 – Expressions and Equations

 Evaluate the exponential expression. Be sure to show your work.

$$(-0.4)^3 \div 2^2 = \square$$

A -0.016

B -3

C -0.024

D -0.006

Common Core Standard 8.EE.A.1 – Expressions and Equations

 Evaluate the exponent $(-2)^{-8}$. Be sure to show your work.

A -256

B $\frac{1}{256}$

C $\frac{1}{128}$

D $-\frac{1}{256}$