

Name \_\_\_\_\_

Common Core Standard 8.EE.A.2 – Expressions and Equations

Find  $q$ , if  $q^2 = \frac{0.64}{1.21}$ . Be sure to show your work.

A  $\frac{6}{11}$

B  $\frac{8}{11}$

C  $\frac{0.8}{0.11}$

D 2

Common Core Standard 8.EE.A.2 – Expressions and Equations

Which row arranges the values from least to greatest? Be sure to explain your answer.

A  $\sqrt[3]{216}$ ,  $\sqrt{121}$ ,  $\sqrt[3]{0.064}$ ,  $\sqrt{6.25}$ ,

B  $\sqrt[3]{0.064}$ ,  $\sqrt{6.25}$ ,  $\sqrt[3]{216}$ ,  $\sqrt{121}$

C  $\sqrt{6.25}$ ,  $\sqrt[3]{216}$ ,  $\sqrt{121}$ ,  $\sqrt[3]{0.064}$

D  $\sqrt[3]{0.064}$ ,  $\sqrt[3]{216}$ ,  $\sqrt{6.25}$ ,  $\sqrt{121}$

Common Core Standard 8.EE.A.2 – Expressions and Equations

The volume of a cube is  $512 \text{ cm}^3$ . What is the surface area of the cube? Be sure to show your work.

A  $314 \text{ cm}^2$

B  $284 \text{ cm}^2$

C  $36 \text{ cm}^2$

D  $384 \text{ cm}^2$

Name \_\_\_\_\_

Common Core Standard 8.EE.A.2 – Expressions and Equations

- Connor decided to tile his square-shaped bathroom. He is laying 676 square feet of tile. What is the length of one side of Connor's bathroom? Be sure to show your work.

- A 26 feet  
 B 14 feet  
 C 24 feet  
 D 16 feet

Common Core Standard 8.EE.A.2 – Expressions and Equations

- The value of which expression is 9? Be sure to show your work.

- A  $\sqrt[3]{343} - \sqrt{\frac{64}{16}}$   
 B  $\sqrt{343} + \sqrt{\frac{64}{16}}$   
 C  $\sqrt[3]{343} + \sqrt{\frac{64}{16}}$   
 D  $\sqrt[3]{343} \times \sqrt{\frac{64}{16}}$

Common Core Standard 8.EE.A.2 – Expressions and Equations

- Which of the following equations is true? Be sure to show your work.

- A  $\sqrt[3]{216} \times \sqrt[3]{8} = \sqrt[3]{1728}$   
 B  $\sqrt[3]{216} \times \sqrt{8} = \sqrt{1728}$   
 C  $\sqrt[3]{216} + \sqrt[3]{8} = \sqrt[3]{1728}$   
 D  $\sqrt[3]{216} - \sqrt[3]{8} = \sqrt[3]{1728}$