

Name _____

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

Find k , if $k^3 = \frac{64}{125}$. Be sure to explain your answer.

A $\frac{4}{15}$

C $\frac{8}{15}$

B $\frac{4}{5}$

D $\frac{6}{5}$

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

What is the side length of a square with an area of 144 ft^2 ? Be sure to show your work.

A 8

B 12

C 13

D 14

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Which of the following equations is true? Be sure to explain your answer.

A $\sqrt{\frac{2 \times 2 \times 3 \times 3 \times 3 \times 3}{5 \times 5 \times 7 \times 7 \times 7 \times 7}} = \frac{1}{128}$

B $\sqrt{\frac{2 \times 2 \times 3 \times 3 \times 3 \times 3}{5 \times 5 \times 7 \times 7 \times 7 \times 7}} = \frac{18}{245}$

C $\sqrt{\frac{2 \times 2 \times 3 \times 3 \times 3 \times 3}{5 \times 5 \times 7 \times 7 \times 7 \times 7}} = \frac{16}{49}$

D $\sqrt{\frac{2 \times 2 \times 3 \times 3 \times 3 \times 3}{5 \times 5 \times 7 \times 7 \times 7 \times 7}} = \frac{324}{8575}$

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- The Wilsons want to fence their square garden that has an area of 289 square meters. How long is each side of the garden? Be sure to explain your answer.

- A 17 meters
 B 18 meters
 C 16 meters
 D 19 meters

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- Which row arranges the values from least to greatest? Be sure to show your work.

- A $\sqrt[3]{27}$, $\sqrt[3]{125}$, $\sqrt{16}$, $\sqrt{625}$
 B $\sqrt{16}$, $\sqrt[3]{27}$, $\sqrt[3]{125}$, $\sqrt{625}$
 C $\sqrt[3]{27}$, $\sqrt{16}$, $\sqrt[3]{125}$, $\sqrt{625}$
 D $\sqrt{625}$, $\sqrt[3]{27}$, $\sqrt{16}$, $\sqrt[3]{125}$

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- The value of which expression is 5.8? Be sure to show your work.

- A $\sqrt[3]{\frac{27}{0.125}} - \sqrt{\frac{0.16}{4}}$ C $\sqrt[3]{\frac{27}{0.125}} + \sqrt{\frac{1.6}{4}}$
 B $\sqrt[3]{\frac{27}{0.125}} \times \sqrt{\frac{0.16}{4}}$ D $\sqrt[3]{\frac{27}{1.25}} - \sqrt{\frac{0.16}{4}}$