

Name _____

Common Core Standard 8.NS.A.1 – Number System

 Write the fraction in decimal form: $\frac{92}{1000}$.

A 0.092

B 0.0092

C 0.92

D 0.920

Common Core Standard 8.NS.A.1 – Number System

 Convert 0.222 to a fraction. Simplify your answer.A $\frac{222}{100}$ B $\frac{222}{1000}$ C $\frac{111}{1000}$ D $\frac{111}{500}$

Common Core Standard 8.NS.A.1 – Number System

 Evaluate the expression. Write the answer in decimal form. Be sure to show your work.

$$\left(\frac{3}{4} \div \frac{2}{5}\right) \times \frac{3}{5} =$$

A 1.125

B 1.375

C 1.425

D 1.0625

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Common Core Standard 8.NS.A.1 – Number System

- Find the missing number in the expression. Be sure to show your work.

$$\frac{5}{33} + \frac{13}{\text{?}} = 1\frac{1}{3}$$

- A 13
B 11
C 15
D 18

Common Core Standard 8.NS.A.1 – Number System

- Evaluate the expression. Write the answer as a fraction. Be sure to show your work.

$$(112.24 \div 0.04) - 2802.5 =$$

- A $2\frac{7}{8}$
B $3\frac{1}{5}$
C $3\frac{1}{2}$
D $3\frac{1}{4}$

Common Core Standard 8.NS.A.1 – Number System

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

- A An irrational number is a real number that cannot be written as a simple fraction.
- B Whole numbers cannot be written as fractions.
- C Negative numbers are larger than positive numbers.
- D All rational numbers are integers.

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Common Core Standard 8.NS.A.1 – Number System

Which set of numbers contains at least one irrational number? Be sure to explain your answer.

A $\frac{14}{35}$; $\sqrt[3]{216}$; 1118; $-\frac{23}{70}$

B $-11.\bar{9}$; $\sqrt[4]{\frac{16}{81}}$; 543; 10.109

C $\sqrt{3}$; 5; $4.0\bar{9}$; -1023

D $12.\bar{6}$; $\frac{225}{5}$; $\sqrt{169}$; $-\frac{1}{9}$

Common Core Standard 8.NS.A.1 – Number System

Convert $\frac{1}{9}$ to decimal form. Be sure to show your work.

A $0.\overline{16}$

B $0.1\bar{6}$

C $0.\bar{3}$

D $0.\bar{1}$

Common Core Standard 8.NS.A.1 – Number System

Express 0.333333... as a fraction. Be sure to show your work.

A $\frac{1}{10}$

C $\frac{1}{6}$

B $\frac{1}{3}$

D $\frac{2}{7}$

Name _____

Common Core Standard 8.NS.A.1 – Number System

 Express 0.625 as a fraction. Be sure to show your work.

A $\frac{5}{8}$

C $\frac{6}{15}$

B $\frac{625}{100}$

D $\frac{8}{15}$

Common Core Standard 8.NS.A.1 – Number System

 Express $0.\overline{16}$ as a fraction. Be sure to show your work.

A $\frac{1}{9}$

B $\frac{2}{7}$

C $\frac{1}{6}$

D $\frac{1}{16}$

Common Core Standard 8.NS.A.1 – Number System

 Evaluate the expression. Write the answer in decimal form. Be sure to show your work.

$$\frac{7}{54} + \left(\frac{2}{3} - \frac{1}{6} \right) =$$

A 0.726

B $0.\overline{578}$

C 0.625

D $0.\overline{629}$