Name_____

ASSESSMENT

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 $\sqrt{144}$; $\sqrt{225}$; $\sqrt{64}$

B $\sqrt{324}$; $\sqrt{196}$; $\sqrt[3]{64}$

C $\sqrt[3]{125}$; $\sqrt{121}$; $\sqrt{576}$

D $\sqrt{\frac{169}{625}}$; $\sqrt[3]{729}$; $\sqrt{11}$

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

☐ **Convert $\frac{1}{8}$ to decimal form. Be sure to show your work.**

A **0.225**

B **0.72**

C **0.64**

D **0.125**

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

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

$$\frac{1}{2} \div \left(\frac{4}{\square} \times \frac{3}{8}\right) = 1\frac{2}{3}$$

A 7
B 5
C 3
D 6

Name_____

ASSESSMENT

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

☐ Express $0.1\overline{7}$ as a fraction. Be sure to show your work.

A $\frac{17}{100}$

B $\frac{8}{45}$

C $\frac{8}{65}$

D $\frac{8}{55}$

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

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

$$\frac{2}{5} \div \left(\frac{3}{10} + \frac{1}{2}\right) - \frac{1}{3} =$$

A $0.\overline{16}$

B $0.2\overline{7}$

C $0.1\overline{6}$

D 0.25

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

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

$$(897.0012 + 0.9988) \times 0.98 =$$

A $880\ 1/25$

B $878\ 4/9$

C $879\ 7/8$

D $881\ 2/3$