

Name _____

Common Core Standard 8.NS.A.2 – Number System

Estimate the square root to the nearest tenth: $\sqrt{51}$. Be sure to show your work.

A 7.1

B 7.4

C 7.6

D 7.8

Common Core Standard 8.NS.A.2 – Number System

Knowing that the value of $\sqrt{33}$ is between 5.7 and 5.8, estimate the square root to the nearest hundredth. Be sure to show your work.

A 5.79

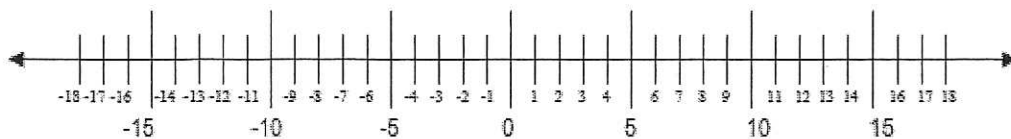
B 5.71

C 5.74

D 5.77

Common Core Standard 8.NS.A.2 – Number System

Estimate the location of $\sqrt{78}$ on the number line. Then, plot and label a point for your estimate. Estimate to the nearest tenth. Be sure to show your work.



A 7.9

B 8.2

C 8.5

D 8.8

Name _____

Common Core Standard 8.NS.A.2 – Number System

 Solve to the nearest tenth. Be sure to show your work.

$$(4\sqrt{22} - \sqrt{22}) - (9\sqrt{10} - 7\sqrt{10}) =$$

A 7.8

B 8.2

C 8.1

D 7.7

Common Core Standard 8.NS.A.2 – Number System

 Simplify the expression. Be sure to show your work.

$$34\sqrt{5} - 14\sqrt{5} + 5\sqrt{5} \times 2\sqrt{3} =$$

A $20\sqrt{5} + 10\sqrt{15}$

B $50\sqrt{15}$

C $18\sqrt{5} + 12\sqrt{15}$

D $42\sqrt{15}$

Common Core Standard 8.NS.A.2 – Number System

 Solve to the nearest hundredth. Be sure to show your work.

$$\frac{2\pi - \sqrt{12}}{\sqrt{4}} =$$

A 1.14

B 1.41

C 1.28

D 1.35