

Name \_\_\_\_\_

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

 Between which whole numbers is  $\sqrt{95}$ . Be sure to explain your answer.

- A 9.1 and 10.3
- B 8 and 9
- C 9 and 10
- D 8.5 and 10

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 Knowing that the value of  $\sqrt{89}$  is between 9.4 and 9.5, estimate the square root to the nearest hundredth. Be sure to show your work.

- A 9.45
- B 9.43
- C 9.47
- D 9.52

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 Simplify the expression. Be sure to show your work.

$$\sqrt{44} + (5\sqrt{11} - 3\sqrt{11}) + 9\sqrt{11} - \sqrt{99} =$$

- A  $2 + 8\sqrt{11}$
- B  $16\sqrt{11}$
- C  $10\sqrt{11}$
- D  $5 + 7\sqrt{11}$

Name \_\_\_\_\_

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- Estimate the square root to the nearest hundredth:  $\sqrt{150}$ . Be sure to show your work.

A 12.16

B 12.26

C 12.24

D 12.34

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- Simplify the expression. Be sure to show your work.

$$2 \times (2\sqrt{21} + 4\sqrt{21}) + (73\sqrt{5} - 48\sqrt{5}) \div 5 =$$

A  $12\sqrt{21} + 5\sqrt{5}$

B  $16\sqrt{21} - 3\sqrt{5}$

C  $11\sqrt{21} + 7\sqrt{5}$

D  $15\sqrt{21} + 8\sqrt{5}$

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

$$\frac{14\sqrt{20} - 4\sqrt{20} - 2\sqrt{5}}{2 \times (9\sqrt{10} - 7\sqrt{10})} =$$

A 3.5

B 3.8

C 2.9

D 3.2