Learning Goal 2.1 - Radicals Practice Test

Name:	
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Date:

- The sum of $\sqrt{18}$ and $6\sqrt{2}$ is
 - A. $7\sqrt{20}$
- B. $9\sqrt{2}$
- C. $15\sqrt{2}$
- D. 18
- 2. The sum of $\sqrt{50}$ and $\sqrt{18}$ is
 - A. $2\sqrt{17}$
- B. $8\sqrt{2}$
- C. $15\sqrt{2}$
- D. 34
- The expression $\sqrt{200}$ is equivalent to
 - A. $25\sqrt{8}$
- B. $100\sqrt{2}$
- C. $2\sqrt{10}$
- D. $10\sqrt{2}$
- 4. The expression $\sqrt{50}$ is equivalent to
 - A. $5\sqrt{2}$
- B. $25\sqrt{2}$
- C. $2\sqrt{5}$
- D. $5\sqrt{10}$
- The expression $5\sqrt{3} \sqrt{27}$ is equivalent
 - A. 8√3
- B. $-8\sqrt{3}$
- C. $-2\sqrt{3}$
- D. $2\sqrt{3}$

- 6. The sum of $\sqrt{27}$ and $6\sqrt{3}$ is
 - A. $7\sqrt{30}$
- B. $9\sqrt{3}$
- C. $9\sqrt{6}$
- D. 15√3
- Which is equivalent to $\sqrt{40}$?
 - A. $2\sqrt{10}$
- B. $2\sqrt{20}$
- C. $4\sqrt{10}$
- D. $10\sqrt{2}$
- The expression $5\sqrt{8} 3\sqrt{2}$ is equivalent

 - A. 7 B. $7\sqrt{2}$ C. $2\sqrt{6}$ D. $\sqrt{34}$
- The expression $\sqrt{93}$ is a number between
 - A. 3 and 9
- B. 8 and 9
- C. 9 and 10
- D. 46 and 47
- 10. When $\sqrt{72}$ is expressed in simplest $a\sqrt{b}$ form, what is the value of a?
 - A. 6
- B. 2
- C. 3

- 11. Expressed in simplest radical form, the product of $\sqrt{6} \cdot \sqrt{15}$ is
 - A. $\sqrt{90}$
- B. $9\sqrt{10}$
- C. $3\sqrt{10}$
- D. $3\sqrt{15}$

- 12. Which expression is equivalent to $7\sqrt{90}$?
 - A. $16\sqrt{10}$
- B. $21\sqrt{10}$
- C. $70\sqrt{9}$
- D. √630

- 13. What is $2\sqrt{45}$ expressed in simplest radical form?
 - A. $3\sqrt{5}$
- B. $5\sqrt{5}$
- C. $6\sqrt{5}$
- D. $18\sqrt{5}$

- 14. Which represents an irrational number?

- B. $\frac{3}{4}$ C. $\sqrt{3}$ D. $\sqrt{4}$

- 15. Which does not represent a rational number?

- A. $\frac{3}{2}$ B. $\sqrt{7}$ C. $\sqrt{16}$ D. $0.\overline{29}$

- 16. Which is a rational number?
 - A. $\sqrt{7}$ B. $\sqrt{18}$ C. $\sqrt{49}$ D. $\sqrt{20}$

17. Express $\sqrt{25} - 2\sqrt{3} + \sqrt{27} + 2\sqrt{9}$ in the simplest radical form.