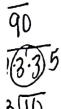
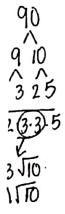
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	Name: Learning Goal 2	.1 - Radicals Practice Test  Date:
1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	The sum of $\sqrt{18}$ and $6\sqrt{2}$ is  A. $7\sqrt{20}$ B. $9\sqrt{2}$ C. $15\sqrt{2}$ D. $18$	6. The sum of $\sqrt{27}$ and $6\sqrt{3}$ is  A. $7\sqrt{30}$ B. $9\sqrt{3}$ B. $9\sqrt{3}$ C. $9\sqrt{6}$ D. $15\sqrt{3}$ $9\sqrt{3}$
2. \$15+\12 \text{3} \text{2} \$12 + 312 \$12	The sum of $\sqrt{50}$ and $\sqrt{18}$ is  A. $2\sqrt{17}$ B. $8\sqrt{2}$ C. $15\sqrt{2}$ D. 34	7. Which is equivalent to $\sqrt{40}$ ?  (A. $2\sqrt{10}$ B. $2\sqrt{20}$ C. $4\sqrt{10}$ D. $10\sqrt{2}$ $2$ $2$ $2$ $2$ $3$ $4$ $5$ $6$ $3$ $2$ $5$ $6$ $6$ $6$ $6$ $6$ $6$ $6$
3. 200 100 2 0 10 52.5	A. $25\sqrt{8}$ B. $100\sqrt{2}$ C. $2\sqrt{10}$ D. $10\sqrt{2}$	8. The expression $5\sqrt{8} - 3\sqrt{2}$ is equivalent to $5\sqrt{2} \cdot 2\sqrt{2} - 3\sqrt{2}$ A. 7  B. $7\sqrt{2}$ C. $2\sqrt{6}$ D. $\sqrt{34}$ $10\sqrt{2} \cdot 3\sqrt{2}$ $7\sqrt{2}$
50 A5 2 A5 2 A5 3	The expression $\sqrt{50}$ is equivalent to  (A.) $5\sqrt{2}$ B. $25\sqrt{2}$ C. $2\sqrt{5}$ D. $5\sqrt{10}$ $\sqrt{3}\sqrt{5}\sqrt{5}$ $\sqrt{5}\sqrt{2}$	<ul> <li>9. The expression √93 is a number between</li> <li>A. 3 and 9</li> <li>B. 8 and 9</li> <li>C. 9 and 10</li> <li>D. 46 and 47</li> </ul>
5. 1/3-1/2:3/3 1/3-3/3 2/3	The expression $5\sqrt{3} - \sqrt{27}$ is equivalent to  A. $8\sqrt{3}$ B. $-8\sqrt{3}$ C. $-2\sqrt{3}$ D. $2\sqrt{3}$	10. When $\sqrt{72}$ is expressed in simplest $a\sqrt{b}$ form, what is the value of a?  (A.) 6 B. 2 C. 3 D. 8 9 8 33 4 2 2 2 2
		page 1 (A·2) 2·3·3

11. Expressed in simplest radical form, the product of  $\sqrt{6} \cdot \sqrt{15}$  is



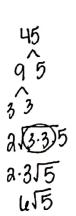
- B.  $9\sqrt{10}$
- D.  $3\sqrt{15}$

12. Which expression is equivalent to  $7\sqrt{90}$ ?



- A.  $16\sqrt{10}$
- $21\sqrt{10}$
- C. 70√9

13. What is  $2\sqrt{45}$  expressed in simplest radical form?



- D. 18√5

B. 5√5

- 14. Which represents an irrational number?

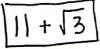
- 15. Which does not represent a rational number?

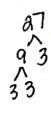
- 16. Which is a rational number?

- 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.

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





Learning Goal 2.1 - Radicals Practice Test