

Adding and Subtracting Radical Expressions Activity

Write the following radical expressions. When you hear the word times, only use a multiplication dot when specifically indicated. Also, number each problem.

1. $5\sqrt{4}$ five square root of four

Answer: 

2. $5\sqrt[3]{8}$ five cube root of eight

Answer: 

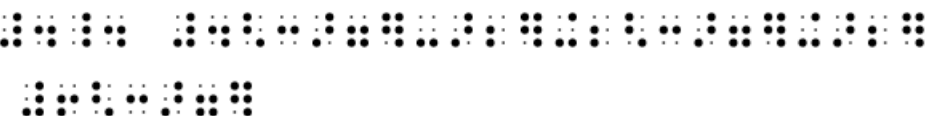
3. $6\sqrt{2} - 3\sqrt{2} = (6 - 3)\sqrt{2} = 3\sqrt{2}$

Six times the square root of two end root minus three times the square root of two end root equals open parenthesis six minus three close parenthesis times the square root of two end root equals three times the square root of two end root.

Answer: 

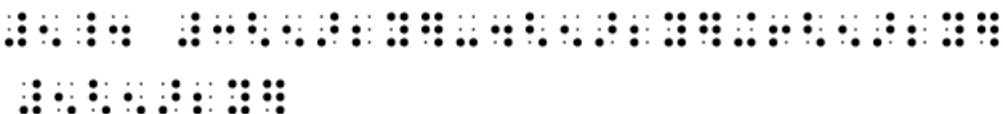
4. $4\sqrt[3]{7} - \sqrt{2} + 2\sqrt[3]{7} + \sqrt{2} = 6\sqrt[3]{7}$

Four cube root of seven end root minus the square root of two end root plus two cube root of seven end root plus the square root of two end root equals six cube root of seven end root.

Answer: 

5. $3\sqrt[5]{2y} - 4\sqrt[5]{2y} + 6\sqrt[5]{2y} = 5\sqrt[5]{2y}$

Three fifth root of two y end root minus four fifth root of two y end root plus six fifth root of two y end root equals five fifth root of two y end root.

Answer: 

$$6. \quad 4\sqrt{2z+1} + \sqrt{2z+1} = 5\sqrt{2z+1}$$

Four square root of two z plus one end root plus square root of two z plus one end root equals five square root of two z plus one end root.

Answer: 