Core Content

Cluster Title: Write radical expressions in equivalent form.
Standard: Write radical expressions in equivalent forms.
Concepts and Skills to Master
• Write radical expressions in equivalent forms using radical symbols. • Perform operations on radical expressions.

Supports for Teachers

Critical Background Knowledge	
• Use square root and cube root symbols (8.EE.2).	
Academic Vocabulary	
Radical expressions, radical form, index, radicand, root	
Suggested Instructional Strategies	**Resources**
• Use radical expressions that are generated from geometry tasks.	
Sample Formative Assessment Tasks	
Skill-based Task Multiply $2\sqrt{3}\left(5+\sqrt{6}\right)$ Write $\sqrt{32}$ in an equivalent form	**Problem Task** Are each of the following always true, sometimes true, or never true? Justify your answers. $\left(\sqrt{x}\right)^2=\sqrt{x^2}$ $\sqrt{x}-\sqrt{y}=\sqrt{x-y}$ $\frac{1}{\sqrt{x}}=\frac{\sqrt{x}}{x}$ $\sqrt{2}\sqrt{x}=\sqrt{2x}$