### Lesson 4 Practice Problems

1. Evaluate $8^{\frac{5}{3}}$.
2. Select **all** expressions that are equal to $64^{\frac{3}{2}}$.
	1. 96
	2. $8^{3}$
	3. 512
	4. $4^{2}$
	5. $\sqrt{64^{3}}$
	6. $\sqrt[3]{64}^{2}$
3. Write the expression $17^{\frac{4}{3}}$ using radicals.
4. An arithmetic sequence $k$ starts 4, 13, . . . . Explain how you would calculate the value of the 5,000th term.
* (From Unit 1, Lesson 8.)
1. Select **all** items equivalent to $\sqrt{24}$.
	1. the area of a square with side length 24 units
	2. the side length of a square with area 24 square units
	3. the positive number $x$, where $x⋅x=24$
	4. the positive number $y$, where $y=24⋅24$
	5. the edge length of a cube with volume 24 cubic units
	6. the volume of a cube with edge length 24 units
* (From Unit 3, Lesson 2.)
1. Which expression is equivalent to $23^{\frac{1}{2}}$?
	1. $\frac{1}{23}$
	2. $\frac{1}{\sqrt{23}}$
	3. 11.5
	4. $\sqrt{23}$
* (From Unit 3, Lesson 3.)



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