

DATE

PERIOD

Curated Practice Problem Set

Unit 3 Lesson 4 Cumulative Practice Problems

- 1. Evaluate $8^{\frac{5}{3}}$.
- 2. Select **all** expressions that are equal to $64^{\frac{3}{2}}$.

A. 96

B. 8³

C. 512

D. 4²

E. $\sqrt{64^3}$

F. $\sqrt[3]{64}^2$

- 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.)



NAME		ΓE	PERIOD
5.	S. Select all items equivalent to $\sqrt{24}$.		
	A. the area of a square with side length 2	24 units	
	B. the side length of a square with area 24 square units		
	C. the positive number x , where $x \bullet x =$	24	
	D. the positive number y , where $y = 24$	D. the positive number y , where $y = 24 \cdot 24$	
	E. the edge length of a cube with volume 24 cubic units		
	F. the volume of a cube with edge length	1 24 units	

(From Unit 3, Lesson 2.)

- 6. Which expression is equivalent to $23^{\frac{1}{2}}$?
 - A. $\frac{1}{23}$ B. $\frac{1}{\sqrt{23}}$ C. 11.5
 - $D.\sqrt{23}$

(From Unit 3, Lesson 3.)