Square Root and Cube Root Study Guide

Directions: Answer all questions, and show all work where applicable.

1. Tell whether each equations are equal:

1.
$$\sqrt{8} = 4$$
 the square root of 8 is not 4
1. $\sqrt[3]{27} = 9$ the cube root of 27 is not 9, it is 3
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1. $\sqrt[3]{\frac{8}{64}} = \sqrt{\frac{4}{16}} = \frac{\sqrt[3]{8}}{\sqrt[3]{64}} = \frac{2}{\sqrt[4]{16}} = \frac{2}{\sqrt[4]{16}} = \frac{2}{\sqrt[4]{16}} = \frac{2}{\sqrt[4]{16}} = \frac{4}{\sqrt[4]{16}} = \frac{2}{\sqrt[4]{16}} = \frac{4}{\sqrt[4]{16}} = \frac{2}{\sqrt[4]{16}} = \frac{4}{\sqrt[4]{16}} = \frac{4}{\sqrt[4]$

2. Tom is decorating the outside edge of a poster board for his class presentation. He needs to know the side length of the poster board. He does know that the area of the poster board is X square feet.

Which equation shows the side length of the poster board in feet?

a. b.	$\frac{\sqrt{X}}{\frac{X}{2}}$	ů.			area	=	J.	+ that	is in
c.	x^2				ana	=	X	the D	roblem
d.	<u>∛X</u>		-	X	take to	te to	5qua find	n root out la	nd w

3. Which of the following are perfect squares, or perfect cubes? For each perfect square or perfect cube, write their square root or cube root.

4. Erin bought a new sugar container from the store. It is the shape of a cube. She can fit 216, 1 inch sugar cubes inside of it.

What is the height of the container?