Warm Up Questions

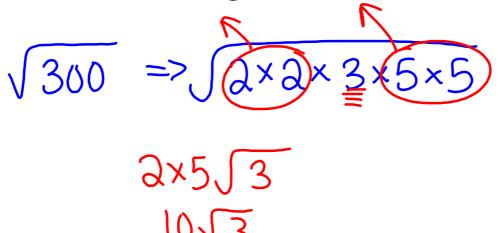
- 1. Write the following as a mixed radical $\sqrt{300}$
 - 2. Write the following as an entire radical

$$3\sqrt{10}$$

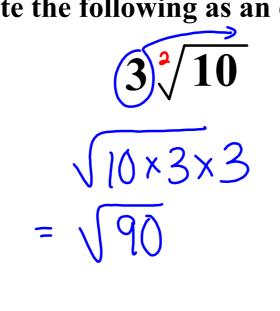
3. Write the following in order of least to greatest.

$$4\sqrt{6}$$
, $2\sqrt{8}$, $-3\sqrt{7}$, $9\sqrt{2}$, $10\sqrt{2}$

1. Write the following as a mixed radical $\sqrt{\,300}$



2. Write the following as an entire radical



3. Write the following in order of least to greatest.

 $4\sqrt{6}$, $2\sqrt{8}$, $-8\sqrt{7}$, $9\sqrt{2}$, $10\sqrt{2} \times 10 \times 10}$ $6\times 4\times 4$ $18\times 2\times 2$ $17\times 3\times 3$ $12\times 9\times 9$ 162, 162, 162, 162, 163 A cube has a volume of 875 cm³.

Write the edge length of the cube as a radical in simplest form.

$$\rightarrow \sqrt[3]{875}$$

$$=\sqrt[3]{5 \times 5 \times 5 \times 7}$$

$$= 5\sqrt[3]{7}$$

A cube has a Surface Area of 648 cm². Write the edge length of the cube as a radical in simplest form. $SA = S^2 \times 6$

$$648 / 6 = 108 \text{ cm}^{2}$$

$$\sqrt{108} = \sqrt{2 \times 2 \times 3 \times 3 \times 3}$$

$$= \sqrt{2 \times 2 \times 3 \times 3 \times 3}$$

$$= 2 \times 3 \sqrt{3}$$

$$= 6\sqrt{3}$$

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#4 a, b, c, d #5 a, b, c, d #11 a, b, c, d #12 a, b, c #20 #22

4.3	Mixed & Entire Radicals Day #2 pick me.notebook	September 19, 2017
	http://www.math-play.com/rational-and-irrational-numbers-game/rati _numbers-game.html	onal-and-irrational-

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#7
#8
#10 d, f, g, h
#11 a - d
#12 a, b, f, g, h
#16
#17
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