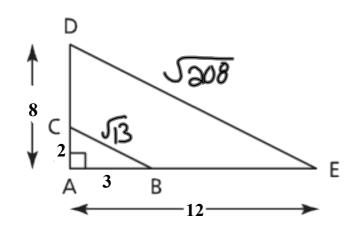


Use the diagram to explain that $\sqrt{208} = 4\sqrt{13}$



Similar Triangles

$$\triangle$$
 ABC \triangle ADE

ADE is 4 times greater than ABC

Therefore
$$4\sqrt{13} = \sqrt{208}$$

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.

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

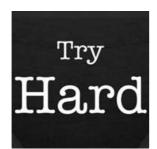
$$\sqrt{108} = \sqrt{2 \times 2 \times 3 \times 3 \times 3}$$

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

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

$$= 6\sqrt{3}$$

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```
#4 a - d

#5 a - d

#7

#10 a, c, d, f, g, h

#11 a - d

#12 a, b, g, h

#14

#15

#16
```