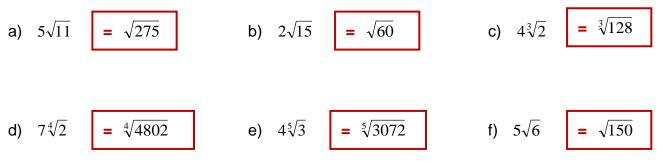
1. Write each radical in simplest form. a) $\sqrt{18}$ b) $\sqrt{96}$ c) $\sqrt{108}$ d) $\sqrt{48}$ e) $\sqrt[3]{135}$ $= 3\sqrt{2}$ $= 4\sqrt{3}$ $= 3\sqrt[3]{5}$ **=** 4√6 **=** $6\sqrt{3}$ **g)** $\sqrt[4]{48}$ i) $\sqrt{735}$ f) $\sqrt[3]{162}$ h) ∜176 $= 2\sqrt[4]{3}$ $= 2\sqrt[4]{11}$ **=** 7√15 $= 3\sqrt[3]{6}$

Section 4.3 Mixed and Entire Radicals

2. Write each mixed radical as an entire radical.

ANSWER KEY

Math 1201



3. Write the LCM for 18, 20 and 42.

LCM = 1260

4. Write the GCF for 150, 275, and 420.



5. The volume of a cube is 6859 in^3 . Determine the surface area of the cube.



6. A cube has a surface area of 1176 in^2 . What is its volume?

