- 1. Write each radical in simplest form.

- a) $\sqrt{18}$ b) $\sqrt{96}$ c) $\sqrt{108}$ d) $\sqrt{48}$
- e) $\sqrt[3]{135}$

- f) $\sqrt[3]{162}$ g) $\sqrt[4]{48}$
- h) $\sqrt[4]{176}$
- i) $\sqrt{735}$

- 2. Write each mixed radical as an entire radical.
- a) $5\sqrt{11}$

b) $2\sqrt{15}$

c) $4\sqrt[3]{2}$

- d) $7\sqrt[4]{2}$
- e) $4\sqrt[5]{3}$

f) $5\sqrt{6}$

- 3. Write the LCM for 18, 20 and 42.
- 4. Write the GCF for 150, 275, and 420.
- 5. The volume of a cube is 6859 in³. Determine the surface area of the cube.
- 6. A cube has a surface area of 1176 in². What is its volume?