Lesson 11 Practice Problems

1. Andre and Jada are discussing how to write $\frac{17}{20}$ as a decimal.

   Andre says he can use long division to divide 17 by 20 to get the decimal.

   Jada says she can write an equivalent fraction with a denominator of 100 by multiplying by $\frac{5}{5}$, then writing the number of hundredths as a decimal.

   a. Do both of these strategies work?

   b. Which strategy do you prefer? Explain your reasoning.

   c. Write $\frac{17}{20}$ as a decimal. Explain or show your reasoning.

2. Write each fraction as a decimal.

   a. $\sqrt{\frac{9}{100}}$

   b. $\frac{99}{100}$

   c. $\sqrt{\frac{9}{16}}$

   d. $\frac{23}{10}$

3. Write each decimal as a fraction.

   a. $\sqrt{0.81}$

   b. 0.0276

   c. $\sqrt{0.04}$

   d. 10.01

4. Find the positive solution to each equation. If the solution is irrational, write the solution using square root or cube root notation.

   a. $x^2 = 90$

   b. $p^3 = 90$

   c. $z^2 = 1$

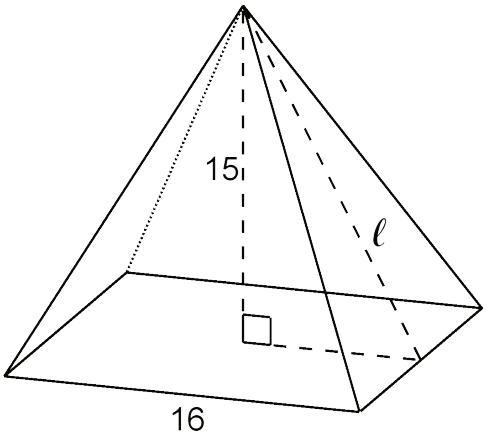
   d. $y^3 = 1$

   e. $w^2 = 36$

   f. $h^3 = 64$

(From Unit 8, Lesson 10.)

5. Here is a right square pyramid.



a. What is the measurement of the slant height ℓ of the triangular face of the pyramid? If you get stuck, use a cross section of the pyramid.

b. What is the surface area of the pyramid?

(From Unit 8, Lesson 8.)