Lesson 3 Problem-Solving Practice

Percents Greater Than 100% and Percents Less Than 1%

1. Kilroy's Web site business has increased every year for the last 3 years. Express the percent it increased during the second year as a decimal and as a fraction in lowest terms.	**2.** Jocelyn expects her new software company to increase its sales next year $2\frac{3}{4}$ times their present value. Express this increase as a percent.

Year	Increase
First	148%
Second	115%
Third	186%

3. City records showed that 0.8% of new homes had no access to electricity. Express this percent as a decimal and as a fraction in simplest form.	**4.** Berto got a puppy 8 weeks ago. In this time, the puppy's weight increased 215%. Express this percent as a decimal and as a fraction.
5. The Quality Assurance department at a gear company found that there were3 defective gears for every 500 produced. Express this as a fraction and as a percent.	**6.** Estelle's pharmacist said that the medicine Estelle was taking contained no more than $\frac{1}{500}$ gram of impurities per gram of total weight. Express this fraction as a percent.

Lesson 3 Problem-Solving Practice

Percents Greater Than 100% and Percents Less Than 1%

1. Kilroy's Web site business has increased every year for the last 3 years. Express the percent it increased during the second year as a decimal and as a fraction in lowest terms.   **1.15; $1\frac{3}{20}$**

Year	Increase
First	148%
Second	115%
Third	186%

2. Jocelyn expects her new software company to increase its sales next year $2\frac{3}{4}$ times their present value. Express this increase as a percent.   **275%**

3. City records showed that 0.8% of new homes had no access to electricity. Express this percent as a decimal and as a fraction in simplest form.   **0.008; $\frac{1}{125}$**

4. Berto got a puppy 8 weeks ago. In this time, the puppy's weight increased 215%. Express this percent as a decimal and as a fraction.   **2.15; $2\frac{3}{20}$**

5. The Quality Assurance department at a gear company found that there were 3 defective gears for every 500 produced. Express this as a fraction and as a percent.

   $\frac{3}{500}$; 0.6%

6. Estelle's pharmacist said that the medicine Estelle was taking contained no more than $\frac{1}{500}$ gram of impurities per gram of total weight. Express this fraction as a percent.   **0.2%**