

Lesson 5.2: Calculating Percents

1. Write each percent as a decimal.
Draw a diagram or number line to illustrate each answer.
 - a) 275%
 - b) 156%
 - c) 320%
 - d) 0.25%
 - e) 0.5%
 - f) 0.58%

2. Write each fraction as a percent.
Draw diagrams to illustrate your answers.
 - a) $\frac{6}{5}$
 - b) $\frac{45}{40}$
 - c) $\frac{15}{3}$
 - d) $\frac{9}{6}$
 - e) $\frac{60}{25}$
 - f) $\frac{9}{2}$

3.
 - a) Find each percent of the number.
Draw a diagram to illustrate each answer.
 - i) 400% of 240
 - ii) 40% of 240
 - iii) 4% of 240
 - iv) 0.4% of 240
 - b) What patterns do you see in your answers in part a?
 - c) Use the patterns in part a to find each percent.
 - i) 4000% of 240
 - ii) 0.04% of 240

4. One hundred sixty students attended Music Night on Thursday night.
The attendance on Friday night was 120% of the attendance on Thursday night.
The attendance on Saturday night was 75% of the attendance on Friday night.
 - a) How many people attended Music Night on Friday night?
 - b) How many people attended on Saturday night?
 - c) What was the total attendance for the 3 nights?

5. A house was purchased for \$450 000.
Three years later, the house was sold for 124% of its purchase price.
 - a) What was the selling price of the house?
 - b) Estimate to check your answer.
 - c) By how much did the value of the house increase over the three years?

6. In a 500-word assignment, the teacher noted that 1.2% of the words were incorrectly spelled.
 - a) How many words were correctly spelled?
 - b) Estimate to check your answer.