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.