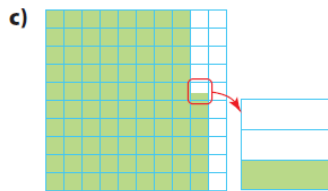
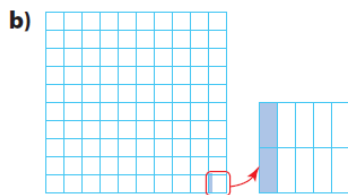
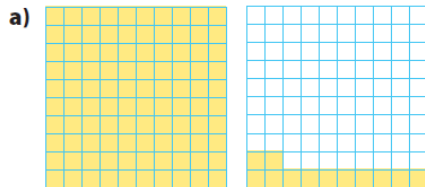


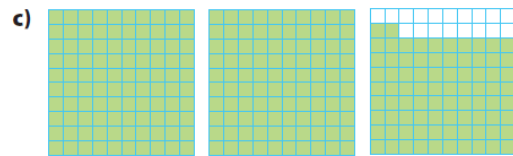
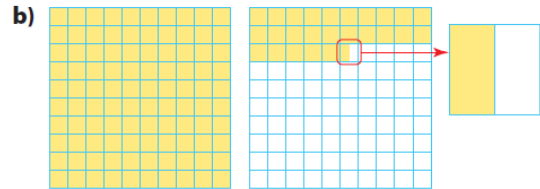
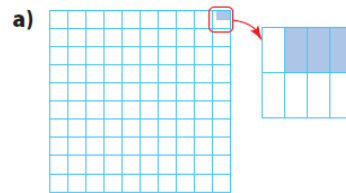
## Practise

For help with #4 and #5, refer to Example 1 on pages 124–125.

4. One full grid represents 100%. What percent does each diagram represent?



5. What percent is represented by each diagram if a completely shaded grid represents 100%?



For help with #6 and #7, refer to Example 2 on page 126.

6. Represent each percent on a grid.
- a) 125%      b)  $10\frac{1}{2}\%$       c) 0.4%
- d) 262%      e)  $\frac{7}{8}\%$       f) 45.6%

- 7.** Represent the percent in each statement on a grid.
- a)** Attendance at the fall fair increased by 3.2% this year.
  - b)** The average mass of a Singapura cat is about 0.13% of the mass of a Siberian tiger.
  - c)** The length of the Yukon River is about 230% of the length of the Fraser River.
- 8.** How many hundred grids are needed to show each of the following percents?
- a)** 300%      **b)** 466%      **c)** 1200%

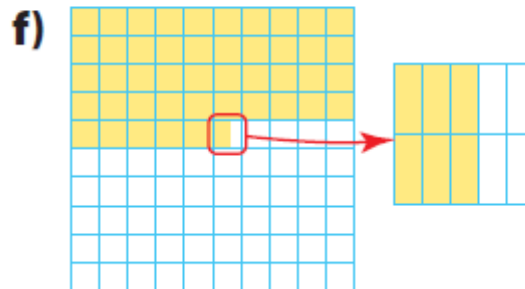
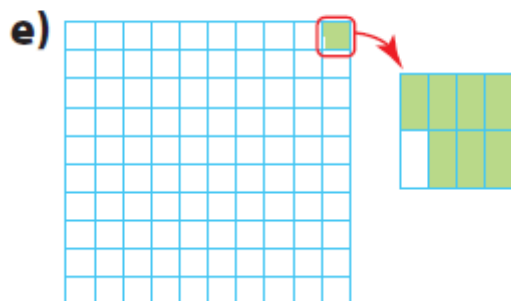
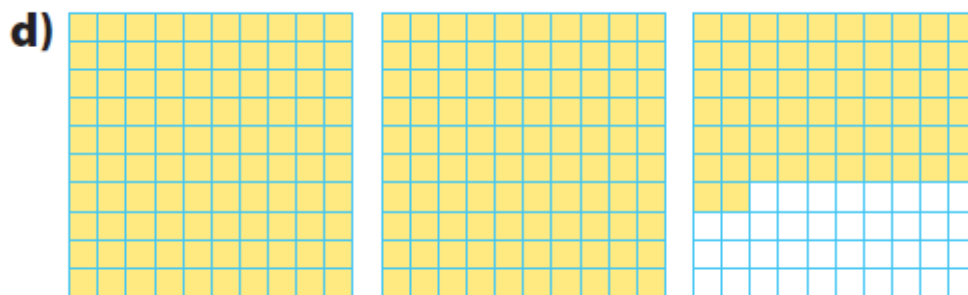
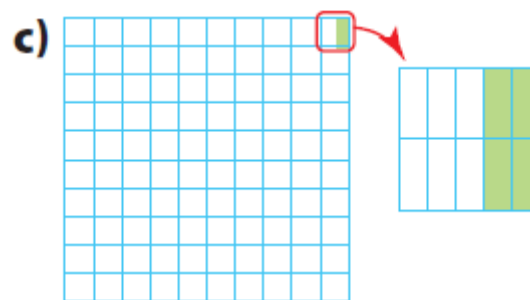
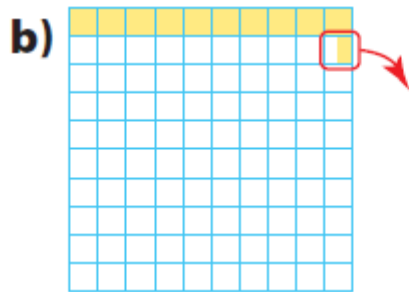
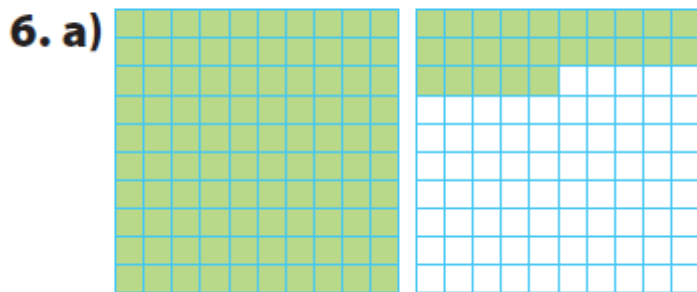
### Apply

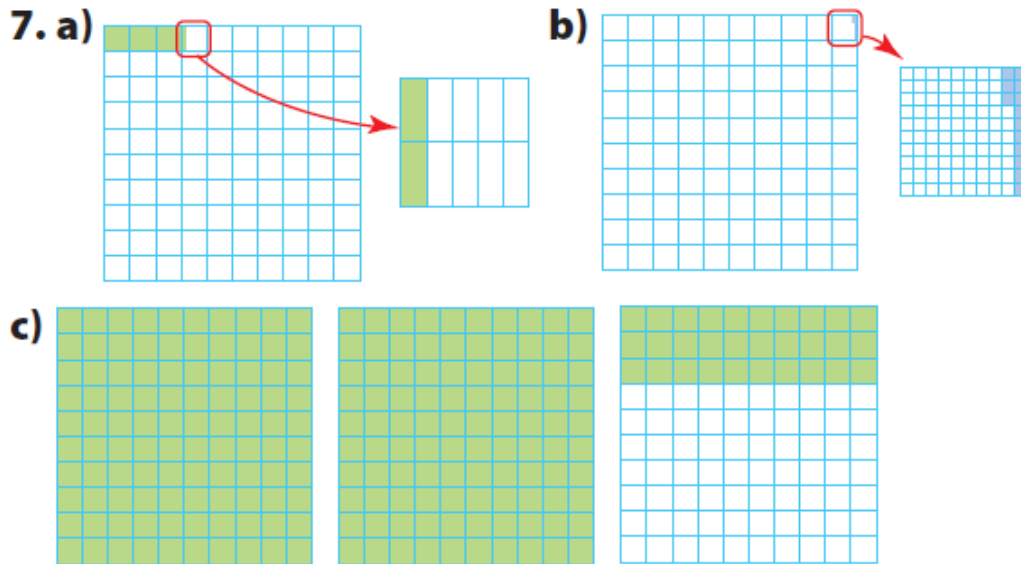
- 9.** Give two examples where a percent greater than 100% might be found in everyday life.
- 10.** Why might a scientist studying water pollution work with percents less than one?
- 13. a)** Use a calculator to convert  $\frac{1}{3}$  to a decimal. How could  $\frac{1}{3}\%$  be shown using a hundred grid?

## 4.1 Representing Percents, pages 128–129

4. a) 112%   b)  $\frac{2}{10}\%$    c)  $85\frac{1}{3}\%$

5. a)  $\frac{3}{8}\%$    b)  $125\frac{1}{2}\%$    c) 282%





**8. a) 3 b) 5 c) 12**

**9.** Answers may vary. Example: Two situations where the percent will be greater than 100% are a mother's mass compared to her newborn child, and the volume of water in the Pacific Ocean in relation to a lake in Canada.

**10.** A scientist may need to relate the measurement of something that is less than 1% of its size. Example: The percent of different pollutants in the water will likely be between 0% and 1%.

