Student Activity: To investigate representing Fractions on a Fraction Strip of total length 1 unit

Use in connection with the interactive file, ‘Fraction Strip 1 unit’, on the Student’s CD.

1. Taking 1 box to represent 1 unit, represent the following fractions on the fraction strips below:
   a. \( \frac{1}{2} \)
   b. \( \frac{1}{3} \)
   c. \( \frac{5}{6} \)
   d. \( \frac{1}{8} \)
   e. \( \frac{5}{8} \)

2. a. Draw a line to indicate the approximate size of \( \frac{3}{8} \) of the chocolate bar opposite.
b. Which would give you more chocolate $\frac{7}{12}$ of this chocolate bar or $\frac{2}{3}$ of this chocolate bar? Explain your answer.

3. Would I get more cake if I was promised $\frac{4}{5}$ of a cake rather than if I was promised $\frac{5}{6}$ of the same cake? Explain your answer.

4. The following diagram represents $\frac{3}{4}$ of a garden.

![Diagram of a garden]

Modify the diagram to represent the whole garden.

5. Given that this strip represents a cake and I eat $\frac{2}{7}$ of the cake. Show the portion of the cake that is left in this diagram.

![Diagram of a cake]

6. a. Estimate what fraction of this strip is shaded.

![Shaded section of a strip]

b. Estimate what fraction of this strip is not shaded.

![Non-shaded section of a strip]

7. Show the approximate height of water in the beaker when the beaker is $\frac{5}{6}$ full.

8. Show the approximate height of water in the beaker when the beaker is $\frac{3}{5}$ full.

9. A concert hall can accommodate 150 people and there are 120 people in the hall, what fraction of the hall is occupied?

10. A party lasts for 2 hours, what fraction of the time is left given 80 minutes of the party has passed?