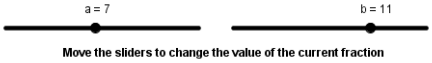
Student Activity: To investigate representing Fractions on a Fraction Strip of total length 1 unit

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



Current fraction $\frac{7}{11}$

All of the following rectangle represents one unit and the green section represents the size of the current fraction

Note if no green section shows the fraction is greater than 1

1. Taking 1 box to represent 1 unit, represent the following fractions on the fraction strips below:

   a. $\frac{1}{2}$

   1

   b. $\frac{1}{3}$

   1

   c. $\frac{5}{6}$

   1

   d. $\frac{1}{8}$

   1

   e. $\frac{5}{8}$

   1

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.

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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.

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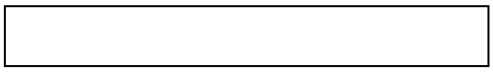
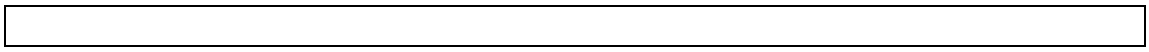
4. The following diagram represents $\frac{3}{4}$ of a garden.



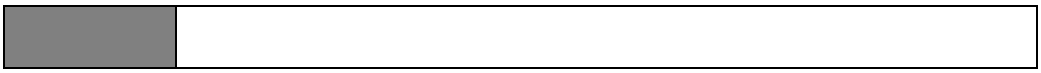
Modify the diagram to represent the whole garden.

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.

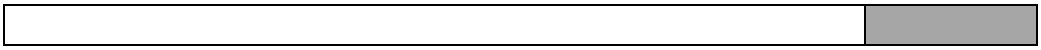


6.

a. Estimate what fraction of this strip is shaded.



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



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

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

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

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

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