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3.2 Using Models to Multiply Fractions

1. One-quarter of a cherry pie was left over after dinner.

Graham ate one-half of the leftover pie for lunch the next day.


What if Graham had eaten only one-quarter of the leftover pie. What fraction of the whole pie would he have eaten? Use fraction circle to demonstrate.


$$
\frac{1}{4} \text { of } \frac{1}{4}
$$

$$
\frac{1}{4} \times \frac{1}{4}
$$



He would have eaten $\frac{1}{16}$ of the pie.
2. $\frac{1}{2}$ of the driveway was shoveled.

Julie shoveled $\frac{1}{3}$ of the snow cleared.
Use a rectangle to model the fraction Julie shoveled.


$$
\frac{1}{3} \times \frac{1}{2}
$$

3. Multiply: $\frac{2}{3} \times \frac{6}{8}=\frac{12 \div 12}{24} \cdot 12=\frac{1}{2}$

