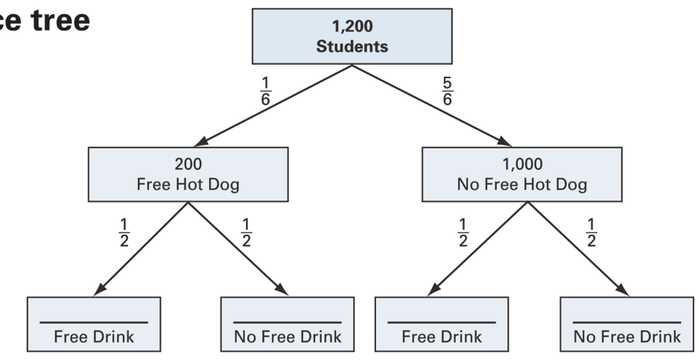
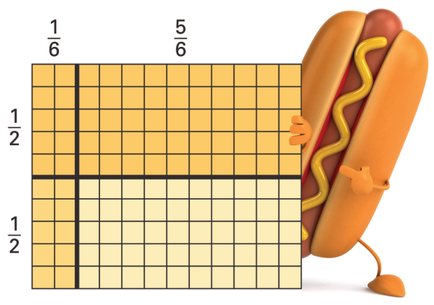
MAKING MATH REAL!

What are the chances you can win a free hot dog and a free drink?

- **a chance tree**



- **an area model**



- **the multiplication rule**

The chance of getting a free hot dog and a free drink is: **1/6 x 1/2, or 1/12**.

Model found in *Great Predictions*: Data Analysis and Probability.

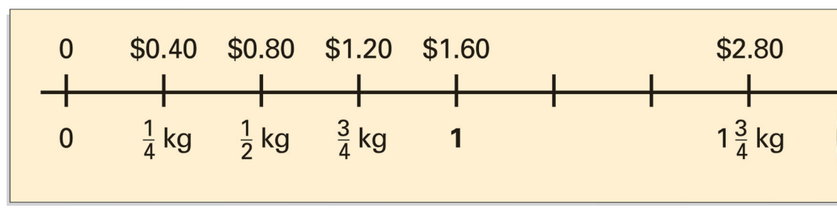
MODEL WITH MATHEMATICS.

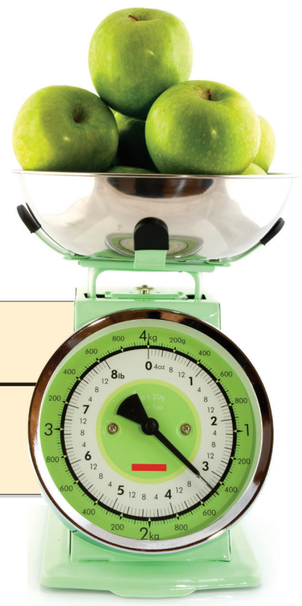
What is the cost of 1.8 kilograms of apples priced at $1.60 per kilogram?

- Estimate by using simple **fractions** like halves or quarters.

You might reason like this.

1.8 × $1.60 is a little more than 1.75 × $1.60, which is the same as $1\frac{3}{4}$ of $1.60.





Model found in *More or Less:* Number.

APPLY MATH TO EVERYDAY LIFE AND WORK.

You owe $3.70 for ice cream and you pay with $20. What is your change?

$3.70 $\xrightarrow{+\$0.05}$ $3.75 $\xrightarrow{+\$0.25}$ $4.00 $\xrightarrow{+\$1.00}$ $5.00 $\xrightarrow{+\$5.00}$ $10.00 $\xrightarrow{+\$10.00}$ $20.00

Arrow language can be used to illustrate the **counting on** method. This arrow string shows the change for the $3.70 purchase.

To avoid using the equal sign to compare amounts that are not equal, you can represent the calculation using arrow language.

Model found in *Expressions and Formulas:* Algebra.

ATTEND TO PRECISION.

Making brownies is fun! You can use ratio tables to change your quantities.

Multiplying

Servings	1	2	24
Cups Sugar	$\frac{1}{2}$	1	12

× 2 × 12

Adding Columns

Servings	1	2	3
Cups Water	$2\frac{1}{2}$	5	$7\frac{1}{2}$

+ +

Model found in *Models You Can Count On:* Number.

MAKE SENSE OF PROBLEMS AND PERSEVERE.

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