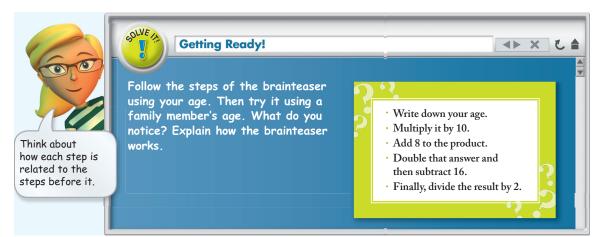
# 2-5 Solve It!



## 2-5 Lesson Quiz

**1.** What is the value of *x*?

$$\begin{array}{c} & L \\ & x^{\circ} / (x - 8)^{\circ} \\ H & J & K \end{array}$$

- **2. Do you UNDERSTAND?** What is the name of the property of equality or congruence that justifies going from the first statement to the second statement?
  - **a.** 6a = 30**b.**  $\angle ABC \cong \angle LMN$ a = 5 $\angle LMN \cong \angle ABC$
- 3. Write a two-column proof.

**Given:**  $\frac{2}{3}(x-6) = 8$ **Prove:** x = 18

## Answers

### Solve It!

The left most digit(s) of the result is/are the one(s) you started with; the result is 10 times the starting age. Adding 8 and then doubling the sum is undone by subtracting 16 and then dividing by 2. So you end up with the product of the age and 10.

### Lesson Quiz

**1.** *x* = 94

- **2. a.** Division Property of Equality
  - **b.** Symmetric Property of Congruence
- **3. 1.**  $\frac{2}{3}(x-6) = 8$ , given **2.** 2(x-6) = 24, Multiplication Property of Equality
- **3.** 2x 12 = 24, Distributive Property
- **4.** 2x = 36, Addition Property of Equality
- **5.** x = 18, Division Property of Equality

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