

## Multiply Using Mental Math

Use addition to break apart the larger factor.

**Find  $8 \times 214$ .**

**Think:**  $214 = 200 + 14$

$$\begin{aligned} 8 \times 214 &= (8 \times 200) + (8 \times 14) \\ &= \underline{1,600} + \underline{112} \\ &= \underline{1,712} \end{aligned}$$

Use subtraction to break apart the larger factor.

**Find  $6 \times 298$ .**

**Think:**  $298 = 300 - 2$

$$\begin{aligned} 6 \times 298 &= (6 \times 300) - (6 \times 2) \\ &= \underline{1,800} - \underline{12} \\ &= \underline{1,788} \end{aligned}$$

Use halving and doubling.

**Find  $14 \times 50$ .**

**Think:** 14 can be evenly divided by 2.

$$\begin{aligned} 14 \div 2 &= \underline{7} \\ 7 \times 50 &= \underline{350} \\ 2 \times 350 &= \underline{700} \end{aligned}$$

When multiplying more than two numbers, use the Commutative Property to change the order of the factors.

**Find  $2 \times 9 \times 50$ .**

**Think:**  $2 \times 50 = \underline{100}$

$$\begin{aligned} 2 \times 9 \times 50 &= 2 \times \underline{50} \times 9 \\ &= \underline{100} \times 9 \\ &= \underline{900} \end{aligned}$$

Find the product. Tell which strategy you used.

**1**  $5 \times 7 \times 20$

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**2**  $6 \times 321$

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**3**  $86 \times 50$

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**4**  $9 \times 399$

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