

Multiplication with



Strategy 1: Count On (from 8x)

$$\begin{aligned} & \mathbf{9 \times 7} \\ & = \mathbf{7 + 7 + 7 + 7 + 7 + 7 + 7 + 7} \\ & \quad \underbrace{\hspace{10em}} \\ & = \mathbf{(8 \times 7) + 7} \end{aligned}$$

Strategy 2: Partial Products (Distributive Property)

$\begin{aligned} & \mathbf{9 \times 7} \\ & = \mathbf{7 + 7 + 7 + 7 + 7 + 7 + 7 + 7} \\ & \quad \underbrace{\hspace{5em}} \quad \underbrace{\hspace{5em}} \\ & = \mathbf{(5 \times 7) + (4 \times 7)} \end{aligned}$		$\begin{aligned} & \mathbf{9 \times 7} \\ & \quad \curvearrowright \quad \curvearrowleft \\ & = \mathbf{(5 + 4) \times 7} \\ & = \mathbf{(5 \times 7) + (4 \times 7)} \end{aligned}$
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Strategy 3: Factors (& Associative Property of Multiplication)

$$\begin{aligned} & \mathbf{9 \times 7} \\ & = \mathbf{3 \times 3 \times 7} \\ & \quad \underbrace{\hspace{2em}} \\ & = \mathbf{3 \times 21} \\ & = \mathbf{21 + 21 + 21} \end{aligned}$$

Strategy 4: Count Back (from 10x)

$$\begin{aligned} & \mathbf{9 \times 7} \\ & = \mathbf{7 + 7 + 7 + 7 + 7 + 7 + 7 + 7 + 7} \quad \text{ⓧ} \\ & \quad \underbrace{\hspace{10em}} \\ & = \mathbf{(10 \times 7) - 7} \end{aligned}$$