

Multiplication with 8

Strategy 1: Count On (from 7x)

$$\begin{aligned} 8 \times 7 \\ = 7 + 7 + 7 + 7 + 7 + 7 + 7 + 7 \\ = (7 \times 7) + 7 \end{aligned}$$

Strategy 2: Partial Products (Distributive Property)

$$\begin{aligned} 8 \times 7 \\ = 7 + 7 + 7 + 7 + 7 + 7 + 7 + 7 \\ = (4 \times 7) + (4 \times 7) \end{aligned}$$

$$\begin{aligned} 8 \times 7 \\ = (4 + 4) \times 7 \\ = (4 \times 7) + (4 \times 7) \end{aligned}$$

Strategy 3: Factors (& Associative Property of Multiplication)

$$\begin{aligned} 8 \times 7 \\ = 2 \times 4 \times 7 \\ = 2 \times 28 \\ = 28 + 28 \end{aligned}$$

Strategy 4: Count Back (from 10x)

$$\begin{aligned} 8 \times 7 \\ = 7 + 7 + 7 + 7 + 7 + 7 + 7 + 7 \quad \cancel{+7} \quad \cancel{+7} \\ = (10 \times 7) - 14 \end{aligned}$$