

# Multiplication Strategies (2 x 2)

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**27 x 16**

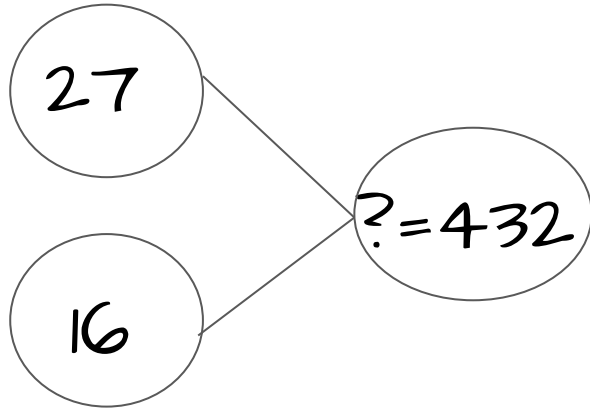
What does  
this mean?

Picture

# 27 x 16

$$27 \times 16 = 16 \times 27$$

27 groups of 16



Partial  
Product

Area  
Model  
(Matrix)

# 27 x 16

+H

$$20 \times 10 = 200$$

$$20 \times 6 = 120$$

$$7 \times 10 = 70$$

$$7 \times 6 = \underline{+42}$$

432

# 27 x 16

10 + 6

20	200	120	= 320
+			
7	70	42	= <u>+112</u>

432

Distributive  
Property

Traditional  
Algorithm

$$27 \times 16$$

$$(20+7) \times (10+6)$$

$$(20 \times 10) + (20 \times 6) + (7 \times 10) + (7 \times 6)$$

$$200 + 120 + 70 + 42$$

$$300 + 30 + 2$$

$$432$$

$$27 \times 16$$

$$+47$$

$$27$$

$$\times \underline{16}$$

$$162$$

$$+ \underline{270}$$

$$432$$