

Multiply Using Expanded Form

You can use expanded form or a model to find products.

Multiply. 3×26

Think and Write

Step 1 Write 26 in expanded form.

$$26 = 20 + 6$$

$$3 \times 26 = 3 \times (20 + 6)$$

Step 2 Use the Distributive Property.

$$3 \times 26 = (3 \times 20) + (\underline{3} \times \underline{6})$$

Step 3 Multiply the tens. Multiply the ones.

$$\begin{aligned} 3 \times 26 &= (3 \times 20) + (3 \times 6) \\ &= \underline{60} + \underline{18} \end{aligned}$$

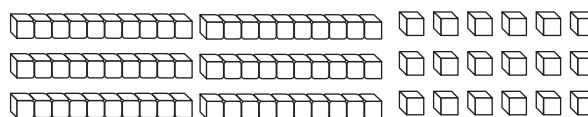
Step 4 Add the partial products.

$$\begin{array}{r} 60 \\ +18 \\ \hline 78 \end{array}$$

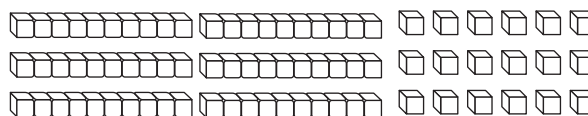
So, $3 \times 26 = \underline{78}$.

Use a Model

Step 1 Show 3 groups of 26.



Step 2 Break the model into tens and ones.



(3 × 2 tens)

(3 × 6 ones)

(3 × 20)

(3 × 6)

60

18

Step 3 Add to find the total product.

$$\underline{60} + \underline{18} = \underline{78}$$

Record the product. Use expanded form to help.

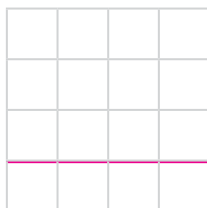
1 $6 \times 14 =$ _____



2 $4 \times 52 =$ _____



3 $5 \times 162 =$ _____



4 $3 \times 279 =$ _____

