

# Multiply in Parts 1

## Multiply $3 \times 46$

Break 46 into two parts: 40 and 6.

Then multiply those two parts separately by 3:  
 $3 \times 40$  is 120, and  $3 \times 6$  is 18.

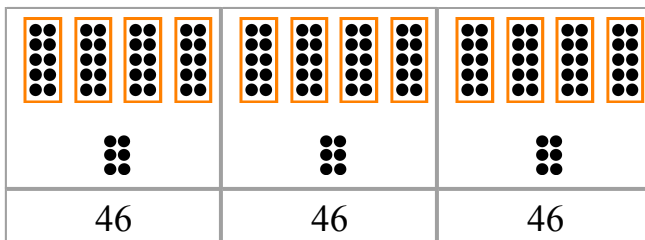
Then add these two partial results:  $120 + 18 = 138$ .

$$3 \times 46$$

$$40 + 6$$

$$(3 \times 40) \text{ and } (3 \times 6)$$

Here is another way of showing the same thing, using bundles of ten.



$$3 \times 40 = 120$$

$$3 \times 6 = 18$$

Lastly, add  $120 + 18 = 138$ .

Study these examples. Multiply the tens and ones separately, then add:

$$\underline{8 \times 13}$$

$$(10 + 3)$$

$$8 \times 10 \text{ and } 8 \times 3$$

$$80 \text{ and } 24$$

$$= 104$$

$$\underline{5 \times 24}$$

$$(20 + 4)$$

$$5 \times 20 \text{ and } 5 \times 4$$

$$100 \text{ and } 20$$

$$= 120$$

$$\underline{7 \times 68}$$

$$(60 + 8)$$

$$7 \times 60 \text{ and } 7 \times 8$$

$$420 \text{ and } 56$$

$$= 476$$

1. Multiply the tens and ones separately. Then add to get the final answer.

**a.  $6 \times 27$**

$$(20 + 7)$$

$$6 \times \underline{\hspace{2cm}} \text{ and } 6 \times \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} \text{ and } \underline{\hspace{2cm}}$$

$$= \underline{\hspace{2cm}}$$

**b.  $5 \times 83$**

$$(\underline{\hspace{2cm}} + \underline{\hspace{2cm}})$$

$$5 \times \underline{\hspace{2cm}} \text{ and } 5 \times \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} \text{ and } \underline{\hspace{2cm}}$$

$$= \underline{\hspace{2cm}}$$

**c.  $9 \times 34$**

$$(\underline{\hspace{2cm}} + \underline{\hspace{2cm}})$$

$$9 \times \underline{\hspace{2cm}} \text{ and } 9 \times \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} \text{ and } \underline{\hspace{2cm}}$$

$$= \underline{\hspace{2cm}}$$

**d.  $3 \times 99$**

$$3 \times \underline{\hspace{2cm}} \text{ and } 3 \times \underline{\hspace{2cm}}$$

$$= \underline{\hspace{2cm}}$$

**e.  $7 \times 65$**

$$7 \times \underline{\hspace{2cm}} \text{ and } 7 \times \underline{\hspace{2cm}}$$

$$= \underline{\hspace{2cm}}$$

**f.  $4 \times 58$**

$$4 \times \underline{\hspace{2cm}} \text{ and } 4 \times \underline{\hspace{2cm}}$$

$$= \underline{\hspace{2cm}}$$