

Multiply in Parts 1

Multiply 3×46

Break 46 into two parts: 40 and 6.

Then multiply those two parts separately by 3:

3×40 is 120, and 3×6 is 18.

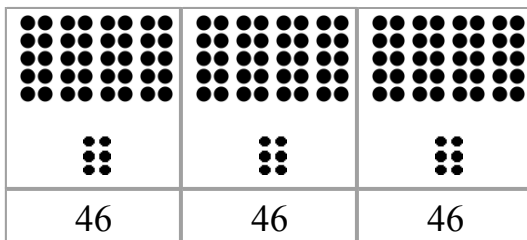
Then add these two partial results: $120 + 18 = 138$.

$$3 \times 46$$



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

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. 6×27

$$(20 + 7)$$

$$6 \times \underline{\quad} \text{ and } 6 \times \underline{\quad}$$

$$\underline{\quad} \text{ and } \underline{\quad}$$

$$= \underline{\quad}$$

b. 5×83

$$(\underline{\quad} + \underline{\quad})$$

$$5 \times \underline{\quad} \text{ and } 5 \times \underline{\quad}$$

$$\underline{\quad} \text{ and } \underline{\quad}$$

$$= \underline{\quad}$$

c. 9×34

$$(\underline{\quad} + \underline{\quad})$$

$$9 \times \underline{\quad} \text{ and } 9 \times \underline{\quad}$$

$$\underline{\quad} \text{ and } \underline{\quad}$$

$$= \underline{\quad}$$

d. 3×99

$$3 \times \underline{\quad} \text{ and } 3 \times \underline{\quad}$$

$$= \underline{\quad}$$

e. 7×65

$$7 \times \underline{\quad} \text{ and } 7 \times \underline{\quad}$$

$$= \underline{\quad}$$

f. 4×58

$$4 \times \underline{\quad} \text{ and } 4 \times \underline{\quad}$$

$$= \underline{\quad}$$