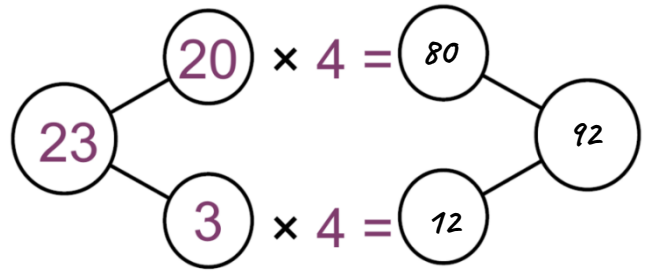


**WORKED EXAMPLE**

Tens	Ones



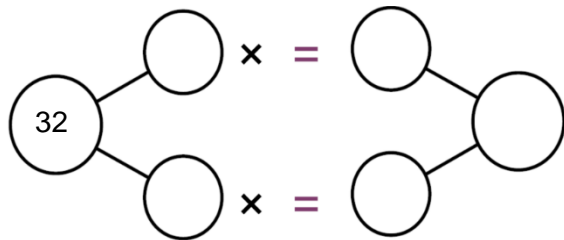
I have noticed that *there are 4 groups of 2 tens and 3 ones. That is 4 groups of 23.*  
 I can calculate *23 x 4 by regrouping the 23 into 20 and 3. 20 x 4 added to 3 x 4 = 23 x 4*  
 I know that *4 groups of 3 ones is 12 ones.*  
 I know that *4 groups of 2 tens is 8 tens. 8 tens is equal to 80.*  
 I know that *4 groups of 23 is 80 + 12 = 92.*

ones tens hundreds groups regrouping multiply added to equal to

**REHEARSE**

Complete the regrouping diagram and speaking frame to match the model.

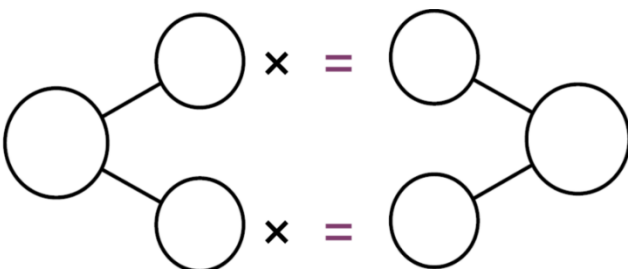
Tens	Ones



\_\_\_ groups of \_\_\_ ones is \_\_\_ ones.  
 \_\_\_ groups of \_\_\_ tens is \_\_\_ tens.  
 \_\_\_ tens is equal to \_\_\_.

3 groups of 32 is \_\_\_ + \_\_\_ = \_\_\_.

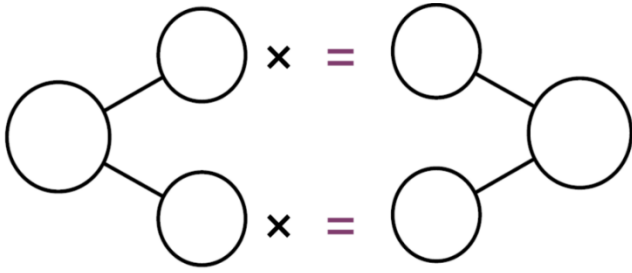
Complete the regrouping diagram to match the calculation: 27 x 3



\_\_\_ groups of \_\_\_ ones is \_\_\_ ones.  
 \_\_\_ groups of \_\_\_ tens is \_\_\_ tens.  
 \_\_\_ tens is equal to \_\_\_.  
 \_\_\_ groups of \_\_\_ is \_\_\_ + \_\_\_ = \_\_\_.

## Multiplication regrouping

Complete the regrouping diagram to match the calculation:  $43 \times 4$



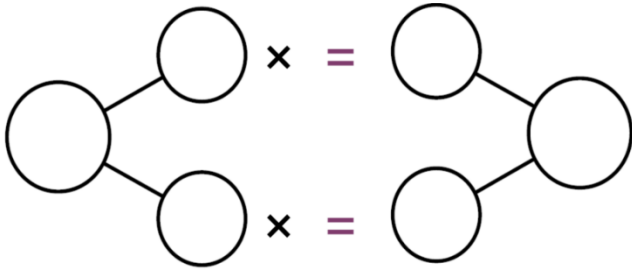
\_\_\_ groups of \_\_\_ ones is \_\_\_ ones.

\_\_\_ groups of \_\_\_ tens is \_\_\_ tens.

\_\_\_ tens is equal to \_\_\_.

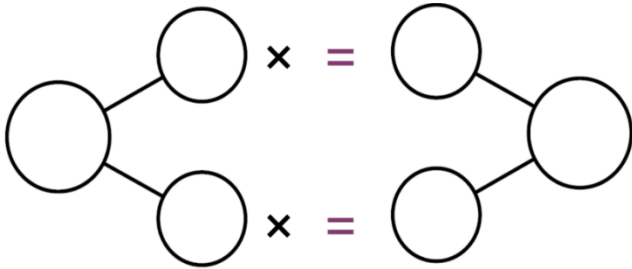
\_\_\_ groups of \_\_\_ is \_\_\_ + \_\_\_ = \_\_\_.

Complete the regrouping diagram to match the calculation:  $34 \times 5$



\_\_\_ groups of \_\_\_ is \_\_\_ + \_\_\_ = \_\_\_.

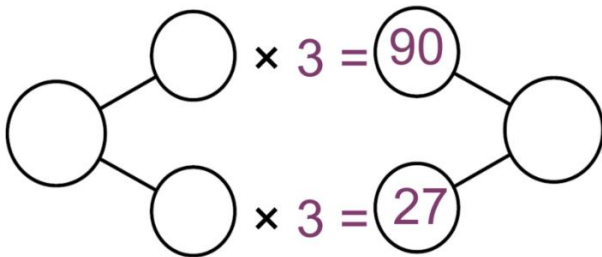
Complete the regrouping diagram to match the calculation:  $56 \times 3$



\_\_\_ groups of \_\_\_ is \_\_\_ + \_\_\_ = \_\_\_.

### APPLY AND EXPLORE

Can you work out what the calculation was? Explain how you know.



### APPLY AND EXPLORE

Record 3 different ways that you could calculate  $46 \times 4$ .