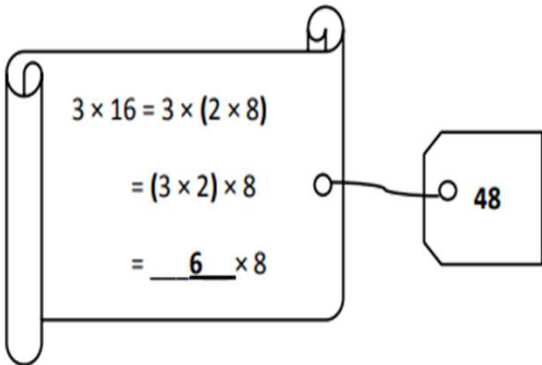
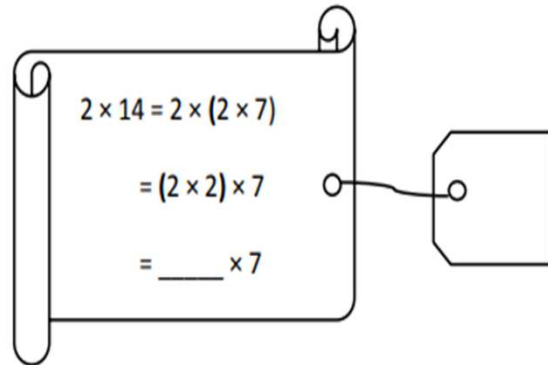


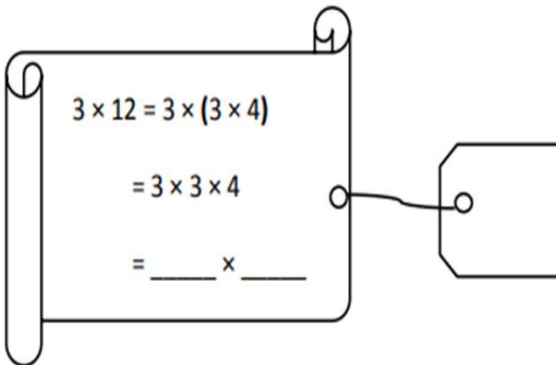
## Multiplication Worksheets (Associative Property)

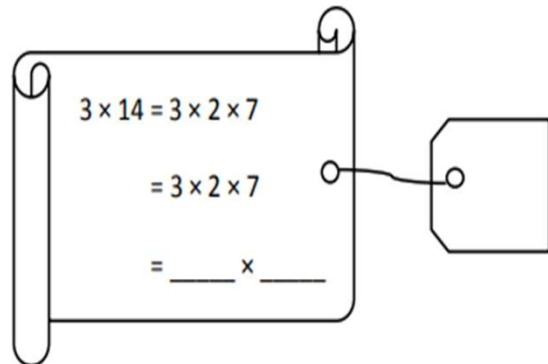
Place ( ) in the equations to simplify. Then solve. The first one has been done for you.

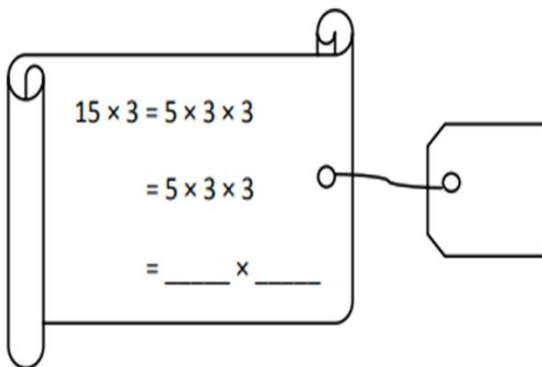

$$\begin{aligned} 3 \times 16 &= 3 \times (2 \times 8) \\ &= (3 \times 2) \times 8 \\ &= \underline{6} \times 8 \end{aligned}$$

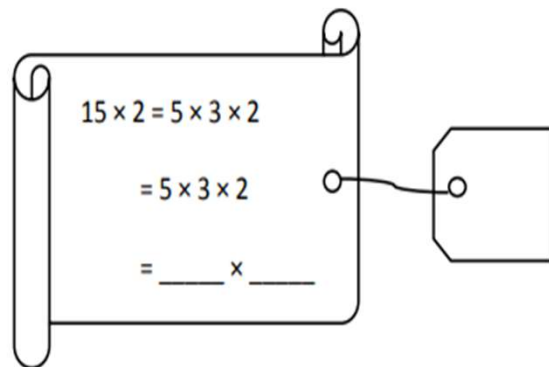
48


$$\begin{aligned} 2 \times 14 &= 2 \times (2 \times 7) \\ &= (2 \times 2) \times 7 \\ &= \underline{\quad} \times 7 \end{aligned}$$


$$\begin{aligned} 3 \times 12 &= 3 \times (3 \times 4) \\ &= 3 \times 3 \times 4 \\ &= \underline{\quad} \times \underline{\quad} \end{aligned}$$

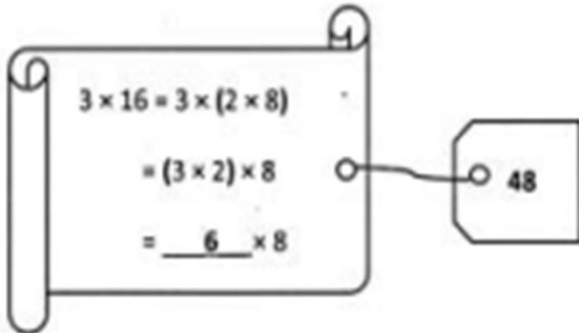

$$\begin{aligned} 3 \times 14 &= 3 \times 2 \times 7 \\ &= 3 \times 2 \times 7 \\ &= \underline{\quad} \times \underline{\quad} \end{aligned}$$


$$\begin{aligned} 15 \times 3 &= 5 \times 3 \times 3 \\ &= 5 \times 3 \times 3 \\ &= \underline{\quad} \times \underline{\quad} \end{aligned}$$


$$\begin{aligned} 15 \times 2 &= 5 \times 3 \times 2 \\ &= 5 \times 3 \times 2 \\ &= \underline{\quad} \times \underline{\quad} \end{aligned}$$

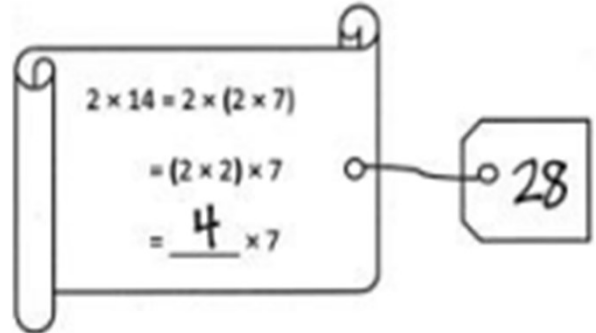
## Multiplication Worksheets (Associative Property)

Place ( ) in the equations to simplify. Then solve. The first one has been done for you.



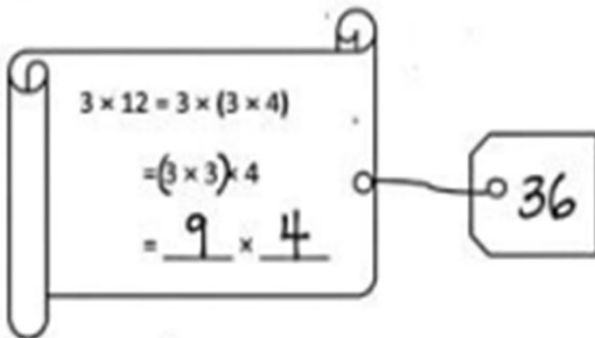
$3 \times 16 = 3 \times (2 \times 8)$   
 $= (3 \times 2) \times 8$   
 $= \underline{6} \times 8$

48



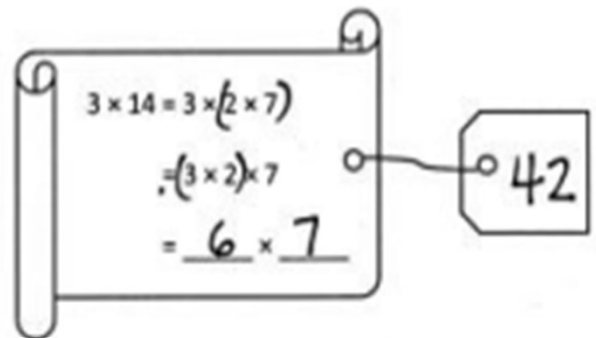
$2 \times 14 = 2 \times (2 \times 7)$   
 $= (2 \times 2) \times 7$   
 $= \underline{4} \times 7$

28



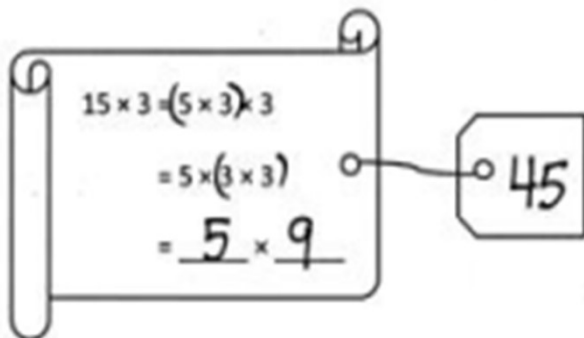
$3 \times 12 = 3 \times (3 \times 4)$   
 $= (3 \times 3) \times 4$   
 $= \underline{9} \times \underline{4}$

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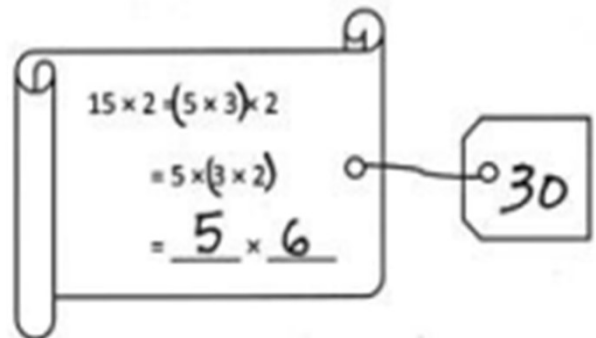
$3 \times 14 = 3 \times (2 \times 7)$   
 $= (3 \times 2) \times 7$   
 $= \underline{6} \times \underline{7}$

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$15 \times 3 = (5 \times 3) \times 3$   
 $= 5 \times (3 \times 3)$   
 $= \underline{5} \times \underline{9}$

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$15 \times 2 = (5 \times 3) \times 2$   
 $= 5 \times (3 \times 2)$   
 $= \underline{5} \times \underline{6}$

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