

Relax!

**Inverse Property of Multiplication** (reciprocals)

**Property**  
 $a \cdot \frac{1}{a} = 1$  where  $a \neq 0$

**Example**  
 $\frac{3}{5} \cdot \frac{5}{3} = \frac{15}{15} = 1$

$\frac{a}{b} \cdot \frac{b}{a} = 1$  where denominator  $\neq 0$

$\frac{10}{10} = 1$

**Multiplication Property of Zero**

**Property**  
 $a \cdot 0 = 0$

**Example**  
 $5 \times 0 = 0$

Problem	Rewrite	Property	Solution
1. $8 + 76 + 92 =$	$= 8 + (76 + 92)$	_____	_____
2. $(20)(17)(5) =$	_____	_____	_____
3. $2 \cdot (3 + 63) =$	$2 \cdot 3 = \frac{6}{1}$	_____	_____
4. $17 + 0 =$	_____	_____	_____
5. $12(10 + 3) =$	_____	_____	_____
6. $84(1) =$	_____	_____	_____
7. $17(0) =$	_____	_____	_____
8. $183 + (17 + 654) =$	_____	_____	_____
9. $156 + 219 + 44 =$	_____	_____	_____
10. $0 + 32 =$	_____	_____	_____
<b>Fill in the blanks using the distributive property.</b>			
11. $5(9 + 7) =$ _____ $+ $ _____		12. $4(3 + \underline{\hspace{1cm}}) =$ _____ $+ 20$	
13. $\underline{\hspace{1cm}}(5 + 7) = 10 +$ _____		14. $6(\underline{\hspace{1cm}} + 8) = 24 +$ _____	
15. $82 + \underline{\hspace{1cm}} =$ _____ $+ 27$		16. $\underline{\hspace{1cm}}(\underline{\hspace{1cm}} + 8) = 80 + 90$	