The Distributive Property in Arithmetic

Fill in the blanks to make this equation true.

$$5 \times (8 + 3) = 5 \times 8 + 5 \times 3$$

Fill in the blanks to make this equation true.

$$5 \times (8+3) = \boxed{5} \times 8 + \boxed{5} \times 3 \qquad 6 \times (12-9) = 6 \times \boxed{12} - 6 \times \boxed{9}$$

Use the Distributive Property to simplify this expression. (Show your work!)

$$3 \times (8 + 10)$$

 $3 \times 8 + 3 \times 10$
 $24 + 30$
 54

Use the Distributive Property to simplify this expression. (Show your work!)

$$7 \times (11 - 5)$$

 $7 \times 11 - 7 \times 5$
 $77 - 35$
 42

Use the Distributive Property to simplify this expression. (Show your work!)

$$4 \times (3+9-2)$$
 $4 \times 3 + 4 \times 9 - 4 \times 2$
 $12 + 36 - 8$
 $48 - 8$

Use the Distributive Property to rearrange this multiplication problem so it is easier to do mentally. Then simplify it.

$$5 \times 29$$
 $5 \times (20 + 9)$
 $5 \times 20 + 5 \times 9$
 $100 + 45$

Use the Distributive Property to rearrange this multiplication problem so it is easier to do mentally. Then simplify it.

$$8 \times 82$$
 $8 \times (80 + 2)$
 $8 \times 80 + 8 \times 2$
 $640 + 16$
 656

Use the Distributive Property to rearrange this multiplication problem so it is easier to do mentally. Then simplify it.

$$3 \times 158$$

 $3 \times (100 + 50 + 8)$
 $3 \times 100 + 3 \times 50 + 3 \times 8$
 $300 + 150 + 24$