Name _____ Date _____

3.4 Practice
For use after Lesson 3.4

Use the Distributive Property and mental math to find the product.

1. 4×31

124

2. 7×49

343

3. $16(38)$

608

Use the Distributive Property to simplify the expression.

4. $8(5 + w)$

$40 + 8w$

5. $11(9 + d)$

$99 + 11d$

6. $15(p - 4 + 2)$

$15p - 30$

Simplify the expression.

7. $2x - 4 + 3x$

$5x - 4$

8. $4y - 1 - 3y + 2$

$y + 1$

9. $x + 2(x - 4)$

$3x - 8$

10. A jazz band sells 31 large boxes of fruit and 74 small boxes of fruit for a fundraiser.

   a. Use the Distributive Property to write and simplify an expression for the profit.

   $31(20 - x) + 74(10 - y)$

   $1360 - 31x - 74y$

   Price: $20
   Cost: $x

   Price: $10
   Cost: $y

   Profit = Price − Cost

   b. A large box of fruit costs $9 and a small box of fruit costs $4. What is the jazz band's profit?

   $785