Name _____

2-1A   Lesson Master

SKILLS   Objective A

In 1–5, use the Distributive Property to expand the expression.

1. $5(2x + 6)$

2. $3\left(\frac{2r}{3} - \frac{1}{6}\right)$

3. $(12y + 3)\frac{1}{3y}$

_____   _____   _____

4. $0.25(4b - 16)$

5. $5(0.2x^2 - 0.4x + 0.3)$

_____   _____

USES   Objective F

In 6 and 7, show how the Distributive Property can be used to perform the calculation in your head.
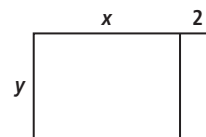
6. $3 \cdot \$1.55$

_____

7. $17 \cdot 5$

_____

USES   Objective H

8. Suppose a sports agent earns 15% of the value of all deals he negotiates. If he negotiates a deal for a player with a \$50,000 signing bonus and \$200,000 per year for x years, how much money does the agent earn in terms of x?

_____

9. You want to tip the pizza delivery person 10% of the cost of your pizza. The pizza cost \$13.65 plus \$1.50 per topping for n toppings. How much is the tip?

_____

10. Express the area of the largest rectangle at the right as

    a. length times width.

    b. the sum of areas of the smaller rectangles.

_____   _____

11. A credit card promotion offers you a 5% rebate on all the purchases you make for a month. If you make purchases of x, y, and z, how much will your rebate be?

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