Algebra I   Worksheet #2   Unit 1   Selected Solutions

Simplify each algebraic expression.

3. $x + x + y + y + y = \underline{2x + 3y}$

6. $ab + ab + ab + ab = \underline{4ab}$

9. $16d + 9d = \underline{25d}$

12. $7y - 9y = \underline{-2y}$

15. $3xy + 7xy = \underline{10xy}$

Find the value of each expression.

18. $(5 + 2) \cdot 8 = \underline{56}$
$\quad\quad 7 \cdot 8$

21. $2 + 3 \cdot (5 - 1) = \underline{14}$
$\quad\quad\quad 2 + 3 \cdot 4$
$\quad\quad\quad 2 + 12$

24. $2 + 3 \cdot 5 - 1 = \underline{16}$
$\quad\quad 2 + 15 - 1$
$\quad\quad\quad 17 - 1$

27. $(20 - 8) \div 2 = \underline{6}$
$\quad\quad\quad 12 \div 2$

Find the value of each expression if y = 15.

30. $y \div 3 = \underline{5}$
$\quad 15 \div 3$

33. $2y + 3 = \underline{33}$
$\quad\; 2 \cdot 15 + 3$
$\quad\quad 30 + 3$

36. $y - (10 + 8) = \underline{-3}$
$\quad\; 15 - (10 + 8)$
$\quad\quad 15 - 18$

39. $20 - y \div 5 = \underline{17}$
$\quad\; 20 - 15 \div 5$
$\quad\quad 20 - 3$