

Algebra 1
5.2 Worksheet #1

Name _____

Use the substitution method to solve the linear system.

1. $y = 6x$
 $x + y = 28$

2. $y = 2x$
 $5x - y = 30$

3. $x = y + 2$
 $2y + x = 17$

4. $c = 3d - 4$
 $c + d = 16$

5. $y = 3x + 1$
 $2x + 3y = 25$

6. $3a - 2b = -6$
 $a = b - 1$

7. $3a + 5b = 7$
 $b - 4a = 6$

8. $x + y = 15$
 $4x + 3y = 38$

9. Sam has 30 nickels and dimes worth \$2.40. How many nickels does he have?

10. A pet store sold 23 puppies and kittens. They sold 9 more puppies than kittens. How many of each did the store sell?