Simplifying Expressions

1. Combine the like terms for the expression 14p-5p

   a. 19p
   b. 9p
   c. -9p
   d. 11p

2. Combine the like terms for the expression: 3(4y+5) +8

   a. 17y +23
   b. 7y + 13
   c. 12y + 40
   d. 12y + 23

3. Combine the like terms for the expression: $x^3 + y + 3x^3 + 7y$

   a. $4x^3 + 8y$
   b. $3x^3 + 7y$
   c. $4x^3 + 7y$
   d. $3x^3 + 8y$

4. When the expression 3(2x+7) +10x is simplified, what is the coefficient for x?

   a. 6
   b. 16
   c. 21
   d. 12

5. How many terms are in the following expression: 6y+4r-3x+y

   a. 4
   b. 3
   c. 7
   d. 6

6. How many like terms are in the following expression: 6y+4r-3x+y-3y-2h+10

a. 8
b. 5
c. 7
d. 3

7. Write an expression for the following word problem: Bethany has quarters (q) and pennies (p). Her sister has 3 times as many quarters as Bethany and 5 times as many pennies.

a. $q - p - 3q - 5p$
b. $q + p + 5q + 3p$
c. $q - p + 5q + 3p$
d. $q + p + 3q + 5p$

8. 3^5 is the equivalent of which expression?

a. $3 \times 3 \times 3 \times 3 \times 3$
b. $3 \times 3 \times 3$
c. $5 \times 5 \times 5$
d. 15

9. In the expression $x - 6$, the coefficient for x is?

a. 0
b. There is no coefficient
c. 1
d. -6

10. How many factors does the expression 2(x+4)
a. 3
b. 2
c. 1
d. 5