

Name(s) _____

Write the following as an equation, using x for the unknown number. Then solve.

- 1) Four times a number added to 8 times the number equals 36. Find the number.

A) $4x(8 + x) = 36$; 4.5

B) $4x - 8x = 36$; -4.5

C) $4x + 8x = 36$; 3

D) $4(x + 8) = 36x$; 1

- 2) Three-fourths of a number is $\frac{1}{2}$. Find the number in lowest terms.

Solve.

- 3) If the sum of a number and two is doubled, the result is six less than three times the number. Find the number.

- 4) Eight times a number, added to 8, is 56. Find the number.

- 5) Four times the difference of a number and one is equal to six times the sum of the number and three. Find the number.

Solve the problem.

- 6) Mary and her brother John collect foreign coins. Mary has twice the number of coins that John has. Together they have 90 foreign coins. Find how many coins Mary has.

Solve.

- 7) The sum of three consecutive integers is 588. Find the numbers.

- 8) The house numbers of two adjacent homes are two consecutive even numbers. If their sum is 330, find the house numbers.

Answer Key

Testname: M050_9.4WKS

1) C

2) $\frac{3}{4}x = \frac{1}{2}; \frac{2}{3}$

3) 10

4) 6

5) -11

6) 60 coins

7) 195, 196, 197

8) 164, 166