

# Simultaneous Simultaneous Equations



## Group 3 Questions

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Solve the equations:

Question 1:

$$x - y = 16 \qquad x = \underline{\hspace{2cm}}$$

$$x + y = 28 \qquad y = \underline{\hspace{2cm}}$$

Question 2:

$$4x + 3y = 54 \qquad x = \underline{\hspace{2cm}}$$

$$2x = 3y - 18 \qquad y = \underline{\hspace{2cm}}$$

Question 3:

$$x + y = 8 \qquad x = \underline{\hspace{2cm}}$$

$$x^2 + y = 14 \qquad y = \underline{\hspace{2cm}}$$

Question 4:

$$x^2 + xy + 3y^2 = 23 \qquad x = \underline{\hspace{2cm}}$$

$$4x + 4y = 20 \qquad y = \underline{\hspace{2cm}}$$

Question 5:

1000 tickets were sold. Adult tickets cost €8.50 ( $x$ ), children's cost €4.50 ( $y$ ), and a total of €7300 was collected.

How many tickets of each kind were sold?

$$x = \underline{\hspace{2cm}}$$

$$y = \underline{\hspace{2cm}}$$