Simultaneous Equations

Literacy

Define and learn the following words.

Simultaneous

Equations

Variable

Coefficient

Research

Where are simultaneous equations used outside of mathematics lessons?

Memory

You need one of the coefficients in front of the same variable in each equation to be the same.

$$3x + 2y = 22$$
$$5x - 2y = 10$$

Skill

Solve these pairs of simultaneous equations for x and y.

$$12x + 20y = 28$$
$$12x + 9y = 6$$

$$5x - y = 15$$
$$x + y = -3$$

$$2x - y = 1$$
$$2x + 2y = 10$$

$$10x + 15y = 40$$
$$10x - 4y = 4$$

Stretch

$$2x - 5y = 3$$
$$3x + 2y = 14$$

$$2x + 13 = 5y$$
$$3x + 4y - 15 = 0$$