Finding Solutions to Equations--giving them one, no, or infinite solutions

Big Ideas:

*An equation with ***one*** solution will produce an answer that is true at one point, such as **x = -6**

*An equation with ***no*** solution will produce a nonsense answer that is never true, such as **2 = 7**

*An equation with ***infinite*** solutions will produce an answer that is always true, such as **9 = 9**

Example: Find values for a and b to make what is asked for true:

$-2(4x - 5) = ax + b$

$-8x + 10$

One solution a = anything but -8 b = anything

No solution a = -8 b = anything but 10

Infinite solutions a = -8 b = 10