

Infinite Solutions

all values make an equation, system of equations,
or an inequality true

$$4(k - 8) = -32 + 4k$$
$$\cancel{4k} - 32 = -32 + \cancel{4k}$$

$$-32 = -32$$

Infinite solutions

Equation is always true,
no matter the value of k .

Check $k = -100$

$$4(-100 - 8) = -32 + 4(-100)$$

$$4(-108) = -32 - 400$$

$$-432 = -432$$

