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## Linear Equations in One Variable- Step-by-Step Lesson

## Lesson 1 Linear Equations:

a) How many solutions does this equation have?
$12 r-4=11 r$
a. no solution
b. one solution
c. infinitely many solutions


## Explanation:

We know that if solving an equation yields a statement that is false, like $5=3$, then the equation has no solution.

If we can produce an equation solving a statement that is true for a single value, like $\mathbf{x}=2$, the equation will have one solution.

An equation statement that is always true, like 2=2, has many solutions.
$12 r-4=11 r$
$-4=-r$
$4=r$
The statement $4=r$ has a single value.
So, the equation has one solution.

