## Possible Solutions

Which statement is true about all expressions? Justify your thinking.
a) They contain variables.
b) They contain only numbers.
c) They are the same as equations.
d) They do not include an equal sign.

This is an example of a student describing the difference between expressions and equations verbally. To solve, students need to read each choice and decide if that statement is true about ALL expressions.

The solution is:
a) Cannot be true because expressions can include variables, but they don't always have to such as $6 \times 5$ is an expression without variables.
b) Cannot be true because expressions can also include variables such as $3 x$ 2.
c) Cannot be true because we know the two are not equivalent.
d) Is true because we know that expressions are like mathematical "phrases," meaning they are not complete with an equal sign and equivalency such as $3 x-2$ is an expression, but $3 x-2=36$ is not an expression, it is an equation.

