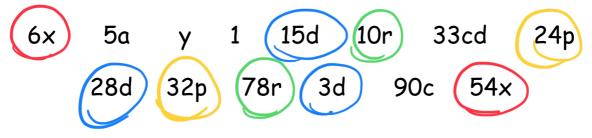
## 7.2 Simplifying Algebraic Expressions

A term is a single number, a single variable, or numbers and variables multiplied together. For example, 5x, 3p, 14, and p are all terms.

LIKE TERMS are terms that are alike. They can be like terms if they have the same variable.

Which of these are like terms?



You can simplify expressions by combining like terms:

same variable



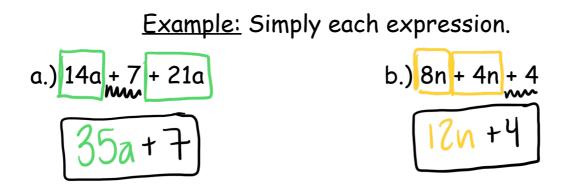
6a + 3a = 9a 5x - 1x = 4x11b + 3 + 26b = 37b + 3

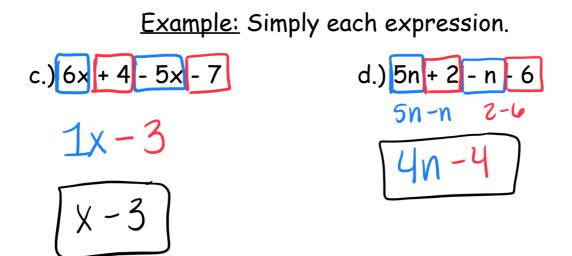
## The last example (11b + 3 + 26b) had the answer

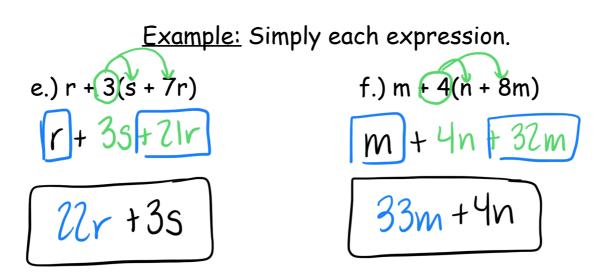
37b + 3.

This is an example of an answer in SIMPLEST FORM.

An answer is in simplest form when there are no more like terms and no parentheses.







Example: Simply each expression.  
g.)
$$mn + 4m + 6n + 2mn$$
  
h.) $3a + 5b + 4 + 6a$   
 $3mn + 4m + 6n$   
 $9a + 5b + 4$ 

