# Lesson 15: Read Expressions in Which Letters Stand for

### Numbers

#### **Student Outcomes**

- Students read expressions in which letters stand for numbers. They assign operation terms to operations when reading.
- Students identify parts of an algebraic expression using mathematical terms for all operations.

#### Classwork

#### **Opening Exercise (10 minutes)**



Have different students share the vocabulary words they wrote in each category. If students are missing vocabulary words in their graphic organizers, have them add the new words. At the end of the Opening Exercise, every student should have the same lists of vocabulary words for each operation.

#### Example 1 (13 minutes)

Have students write down an expression using words. Encourage students to refer back to the graphic organizer created during the Opening Exercise. After providing students time to write each expression, have different students read each expression out loud. Each student should use different mathematical vocabulary.



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- Why is 3 divided by d plus f not a correct answer?
  - Possible answer: 3 divided by d plus f would indicate that we divide 3 and d first and then add f, but this is not what the expression is showing.

#### **Exercises (12 minutes)**

MP.6





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#### Closing (5 minutes)

- Peter says the expression 11 3c is 3 times c decreased by 11. Is he correct? Why or why not?
  - Peter is not correct because the expression he wrote is in the wrong order. If Peter wanted to write a correct expression and use the same vocabulary words, he would have to write 11 decreased by 3 times c.

#### Exit Ticket (5 minutes)



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#### **Exit Ticket**

- 1. Write two word expressions for each problem using different math vocabulary for each expression.
  - a. 5*d* 10

b.  $\frac{a}{b+2}$ 

- 2. List five different math vocabulary words that could be used to describe each given expression.
  - a. 3(d-2) + 10

b.  $\frac{ab}{c}$ 



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#### **Exit Ticket Sample Solutions**

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1.
     Write two word expressions for each problem, using different math vocabulary for each expression.
            5d - 10
      a.
            Possible answers: The product of 5 and d minus 10. 10 less than 5 times d.
             а
      b.
            b+2
            Possible answers: The quotient of a and the quantity of b plus 2. a divided by the sum of b and 2.
2.
     List five different math vocabulary words that could be used to describe each given expression.
            3(d-2) + 10
      a.
            Possible answers: difference, subtract, product, times, quantity, add, sum.
            ab
      b.
            С
            Possible answers: quotient, divide, split, product, multiply, times, per, each.
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#### **Problem Set Sample Solutions**





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