Express Yourself—Assessment

1. Kendall has 74 marbles and Kenadie has 125 marbles. Rhony has four times the amount of marbles as Kendall and Kenadie combined. Write the word problem that shows the equation for the number of marbles that Rhony has and evaluate the relationship between the numbers in the expression.

2. Do you need to do the calculations to know which answer is larger $5 \times (112 + 357)$ OR $(357 + 112) \times 3$?

3. What is a way to write an expression that is eight times as much as $70 \div 10$?

4. Write this statement as expression: “Eighteen less than the sum of forty-five and twenty-three” and explain the relationship.

5. Write an expression for twice the sum of nine hundred thirteen and twenty two.
Express Yourself—Assessment-KEY

1. Kendall has 74 marbles and Kenadie has 125 marbles. Rhony has four times the amount of marbles as Kendall and Kenadie combined. Write the word problem that shows the equation for the number of marbles that Rhony has and evaluate the relationship between the numbers in the expression.

   \((74 + 25) \times 4\) or 
   \((25 + 74) \times 4\) or 
   \(4 \times (74 + 25)\) or 
   \(4 \times (25 + 74)\)

   Rhony has 4 times as many as \((74 + 25)\) which is what Kendall and Kenadie have combined.

2. Do you need to do the calculations to know which answer is larger \(5 \times (112 + 357)\) OR \((357 + 112) \times 3\)?

   No, we know the sum in the parenthesis will be the same but the 5 in one expression is larger than the 3 in the other.

3. What is a way to write an expression that is eight times as much as \(70 \div 10\)?

   \(8 \times (70 \div 10)\) or 
   \((70 \div 10) \times 8\)

4. Write this statement as expression: “Eighteen less than the sum of forty-five and twenty-three” and explain the relationship.

   \((45 + 23) - 18\) 
   \((23 + 45) - 18\)

   The expression \((45 + 23) - 18\) is 18 less than the expression \((45 + 23)\).

5. Write an expression for twice the sum of nine hundred thirteen and twenty two.

   \(2 \times (913 + 22)\) or 
   \(2 \times (22 + 913)\) or 
   \((913 + 22) \times 2\) or 
   \((22 + 913) \times 2\)