Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_

**MA\_EquationsExpressions\_lesson03\_Homework**

1) Write an algebraic expression for each written expression.

a) a number divided by seven plus ten

b) twice a number plus one-half

c) the difference between three and x

d) the product of three and number , minus eight

2) Think back to your class. Describe things that are similar and different between a numerical expression and algebraic expression.

3) Hey it’s me, Marvin. I have been showing you a couple new ways to write multiplication. The newest way is when a number is written next to a variable. A student forgot to write all the multiplication in these algebraic expressions the new way. Help the student by rewriting the multiplication using the new way.

a) b)  c)  d) 

4) Write a written expression for each algebraic expression.

a)  b)  c) 

5) Trina wrote a written expression for the algebraic expression,.



Trina is right!!!!!

Trina’s expression: **The sum of a number and ten.**

Using Trina’s expression above as an example, use the word *sum* to describe the following algebraic expression.

a)

b) 

c) 

d) Use the word *difference* to describe the expression, 

6) You can write algebraic expression to represent real world problem. Write an algebraic expression for each.

a) three pounds heavier than Adlai’s weight

b) three dollars more than the cost of a ticket

c) half as many pieces of candy

d) two inches shorter than Kathryn’s height

e) six centimeters shorter than the length of the pencil

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_

Answer Key

1) Write an algebraic expression for each written expression.



a) a number divided by seven plus ten



b) twice a number plus one-half



c) the difference between three and x



d) the product of three and number , minus eight

2) Think back to your class. Describe things that are similar and different between a numerical expression and algebraic expression.

A numerical expression only contains numbers and symbols, whereas an algebraic expression contains numbers and variables as well as symbols.

3) Hey it’s me, Marvin. I have been showing you a couple new ways to write multiplication. The newest way is when a number is written next to a variable. A student forgot to write all the multiplication in these algebraic expressions the new way. Help the student by rewriting the multiplication using the new way.

a) b)  c)  d) 









4) Write a written expression for each algebraic expression.

a)  b)  c) 

Answers will vary:

Three times a number minus nine.

The product of three and a number take away nine

Answers will vary:

A number divided by ten plus six.

The quotient of a number and ten added to six.

Answers will vary:

The sum of a number and five

A number plus five

5) Trina wrote a written expression for the algebraic expression,.



Trina is right!!!!!

Trina’s expression: **The sum of a number and ten.**

Using Trina’s expression above as an example, use the word *sum* to describe the following algebraic expression.

The sum of a number and five

a)

The sum of a number and four

b) 

The sum of ten and a number

c) 

d) Use the word *difference* to describe the expression, 

The difference of a number and five

6) You can write algebraic expression to represent real world problem. Write an algebraic expression for each.



a) three pounds heavier than Adlai’s weight



b) three dollars more than the cost of a ticket



c) half as many pieces of candy



d) two inches shorter than Kathryn’s height



e) six centimeters shorter than the length of the pencil