

Name _____

Date _____

Expressions 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) 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) $2 \times n$

b) $31 \cdot p$

c) $10 \cdot x - 3$

d) $\frac{t \times 3}{5}$



4) Write a written expression for each algebraic expression.

a) $x + 5$

b) $x \div 10 + 6$

c) $3x - 9$

5) Trina wrote a written expression for the algebraic expression, $n + 10$.

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) $x + 5$

b) $h + 4$

c) $10 + t$

d) Use the word difference to describe the expression, $x - 5$

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