1.3: Write Algebraic Expressions

Goals: *Identify "key" words and phrases *Translate verbal phrases into algebraic expressions

Addition	Subtraction
	Division
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Underline the key words and phrases. Translate the following phrases into algebraic expressions.

Ex: 4 <u>less than</u> a number x

Ex: The <u>sum</u> of 8 and a number *y*

Ex: The product of 9 and *t*

Ex: The quotient of 17 and x

Ex: You buy *b* boxes of pencils at \$1.99 per box

Ex: *j* jeans cost \$10 each

Grouping:

Translate the following verbal phrases into algebraic expressions:

Ex: 4 less than the quantity 6 times a number *n*

Ex: 3 times the sum of a number *y* and 7

Ex: The difference of 22 and the square of a number *m*

Ex: The product of 8 and the quantity 9 minus x

Ex: A piece of ribbon *r* feet long is cut from a ribbon 8 feet long. Write an expression for the length, in feet, of the remaining piece. (Draw a picture to help)

Ribbon Length	Length Cut	Remaining Length	How?



Ex: You work with 5 other people at an ice cream stand. All the workers put their tips in a jar and share their tips equally at the end of the day. Write an expression to represent the total amount of money each worker will receive in tips at the end of the day.

- a) Identify a variable
- b) Fill in the table

Tips for each
person



c) Write an expression

Ex: You and 4 friends meet to have dinner at a restaurant. Everyone decides to order the nightly special. Write an expression to represent the total cost of the meal.

- a) Identify a variable
- b) Fill in the table

Total cost

c) Write an expression

Ex: The length of a building is 20 feet more than its width, *w*. Write an expression to show the length of the building.



Ex: A brick wall is built using bricks of all the same height. Each brick is 3 inches tall. How tall is the wall if *b* bricks are used?

