TOPIC: TRANSLATING SENTENCES TO EQUATIONS

Translating Sentences to Equations

◆ Recall: Keywords can be represented by operations and variables to translate a *phrase* to an algebraic **expression**.

► We can use additional keywords to translate a *sentence* to an **equation**: a statement that 2 expressions are ____.

Recall

x, y, etc. → *A number, a quantity, (an unknown) value*

$+$ → *Sum, increased by, more than* $-$ → *Difference, decreased by, less than, minus*

$\times$ → *Product, times, twice/double/triple, of* $\div$ → *Quotient, divided by, per*

Operation/Symbol	Common Keywords	Example
Equal	*Equals, is, gives, _____ in, yields, _____ to, represents, is the _____ as*	Triple a number is 81.

EXAMPLE Write an equation to represent the given sentence.

The sum of a number x and 12 is the same as three times the number.

TOPIC: TRANSLATING SENTENCES TO EQUATIONS

PRACTICE Write the following sentence as an equation.

(A) Seven more than twice a number is equal to 19. Let x be the number.

(B) The quotient of a number and 6 subtracted from 9 is equal to 1. Let x be the number.

EXAMPLE Write an equation to represent the scenario.

(A) Jason has some money M in his wallet. After spending $18 on a book, he still has $27 left.

(B) A bus travels at a constant speed of 60 km/hr for t hours, then travels an additional 35 km. Write an equation that describes the total distance D traveled.