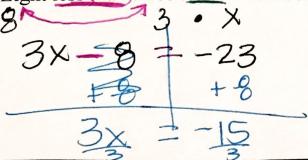
	ADD	SUBTRACT
t	More than (switch order)	- Less than (switch order)
	Sum	minus
	plus	difference
	increased by	decreased by
		31ess than 5 = 5-3
	MULTIPLY  OF Twice (·2)  times  Squared 3²  product  3.3  Double (·2)  Triple (.3)  Cubed 4³  4.4.4  half (·½)	quotient divisor  quotient dividend  half (:2) dividend  divide by  quotient of 6 and 3 -> 6  3
	Same as equiva	lent Total (+)

A Number Variable
Translate each sentence into an equation and solve.

Ex. 1: Eight less than three times a number is -23.



3x-8=-23x=-5

13===x+7

2x+5=7 x=1

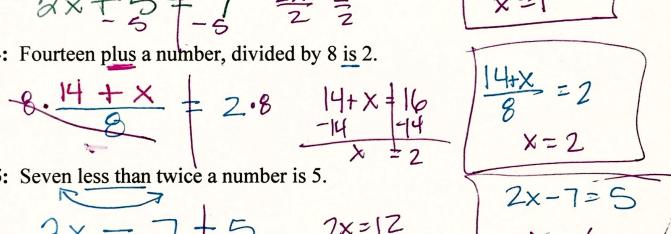
x=6 /

## Translate each sentence into an equation and solve.

Ex. 2: Thirteen is 7 more than one-fifth of a number.

$$2x + 5 + 7$$
  $2x = 2$ 

Ex. 4: Fourteen plus a number, divided by 8 is 2.



Ex. 5: Seven less than twice a number is 5.

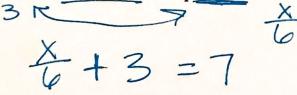
Ex. 6: The product of 4 and a number, decreased by 6 is -10.

$$4x - 6 = -10$$

Ex. 7: Eight less three times a number is -14.

$$8 - 3x = -14$$

Ex. 8: Three more than the quotient of a number and 6 is 7.



Ex. 3: You buy 3 books that each cost the same amount and a magazine, all for \$59.99. You know that the magazine costs \$1.99. How much does each book cost?

$$3x + 1.99 = 59.99$$
 Books + Magazines Total  
 $X = 19.33$   $3X + 1.99 = 59.99$   
 $-1.99 = -1.99$   
 $3x = 58$ 

Ex. 4: A personal trainer buys a weight bench for \$500 and w weights for \$24.99 each. The total cost of the purchase is \$849.86. How many weights were

purchased?

X+3

Ex. 5: You and your friend's lunch cost \$19. Your lunch cost \$3 more than your friend's. How much was your friend's lunch?

You + Friends = Total  

$$11x+3+1x=19$$
  
 $2x+3=19$