

# DO NOW

**Simplify** the following:

1)  $\frac{3(12-8)}{2 \cdot 5 - 4}$

**Evaluate** the expression if  
 $x = 3$ ,  $y = 4$ , and  $z = 5$ :

2)  $3[z + 5(2y - x)]$

1.3-1.5

## Equations and Translating Word Problems

**Lets's say I limit what the  
solution can be...**

Solve the following if the domain is  $x \in \{3,4,5,6\}$

**Lets's say I limit what the  
solution can be...**

Solve the following if the domain is  $x \in \{1,2,3\}$

## Lets's say I limit what the solution can be...

Solve the following if the domain is  $x \in \{0,1,2,3\}$

## Lets's say I limit what the solution can be...

Solve the following if the domain is  $x \in \{6,7,8\}$

## TRANSLATING EXPRESSIONS

Translate the phrases into variable expressions

- 1) A number increase by 7
- 2) The product of 6 and a number
- 3) The quotient of a number and 8
- 4)  $\frac{1}{4}$  of a number
- 5) 5 less than a number
- 6) 3 less than half of a number
- 7) Half the difference between a number and 3

## TRANSLATING EXPRESSIONS

Find a variable expression for the blank.

- 8) The length of a table is  $l$ .  
If the width of the table is 3 feet shorter, then a variable expression for the width is \_\_\_\_\_
- 9) Billy is  $k$  years old.  
If Roger is 12 years older than Billy, then a variable expression for Roger's age is \_\_\_\_\_