

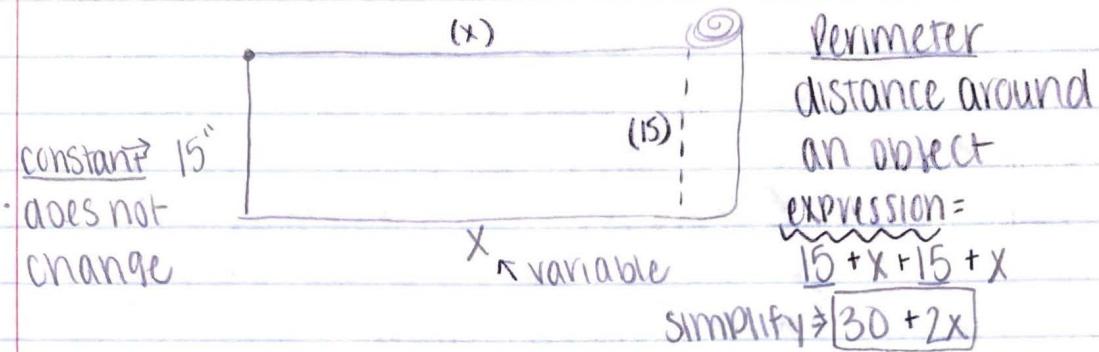
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## Algebra IA

math with variables

- things we don't know.
- things that change

 $x = \text{length}$  $15 = \text{width}$ If perimeter is 100,  
add

$$\text{equation} = 30 + 2x = 100$$

equation has an =,  
expression does NOT

$+$	$-$	$\times$	$\div$
More than	minus	<u>product</u>	divide
add to	take away	times	<u>quotient</u>
plus	less than *	each	
in all	decrease	multiple	
<u>the sum</u>	<u>difference</u>	double ( $x 2$ ) <sup>twice</sup>	
greater than	how many	square of ( $x \cdot x$ )	
increase	more	of	

\* 5 less than 20  $\rightarrow +15$ 

$$20 - 5 = 15$$

less than = switch numbers order

\* 5 less than a number,  $n$ 

$$\text{expression} \Rightarrow n - 5$$

Practice  $\rightarrow$

B8

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## Practice

1. 5 plus a number  $d$
2. 11 fewer than a number  $f$
3. the quotient of 20 and  $t$
4.  $\frac{35}{r}$
5. 11 minus the product of 3 and  $d$

$x$       Step 1       $(3 \cdot d)$

Step 2

6. 12 less than the quotient of 12 and a number,  $z$

\* reversing  
is critical

answers

1.  $5+d$
2.  $f-11$
3.  $\frac{20}{t}$  or  $20 \div t$
4. quotient of 35 and  $r$
5.  $11-3d$
6.  $\frac{12}{z} - 12$