

Algebra IA

math with variables

- things we don't know
- things that change

constant \rightarrow 15"
does not change

(x)
(15)
 x \leftarrow variable

Perimeter
distance around an object
expression =
 $15 + x + 15 + x$
simplify \Rightarrow $30 + 2x$

x = length

15 = width

If perimeter is 100,
add \rightarrow

equation = $30 + 2x = 100$

equation has an =,
expression does NOT

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

* 5 less than 20 \rightarrow $\oplus 15$
 $20 - 5 = 15$

less than = switch numbers order

* 5 less than a number, n
expression $\rightarrow n - 5$

Practice \rightarrow

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
* reversing is critical
Step 1 $(3 \cdot d)$
Step 2

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

answers

88
8/14/18

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