OGUN DIGICLASS

Class: PRIMARY

SUBJECT: MATHEMATICS

TOPIC:BALANCING EQUATION





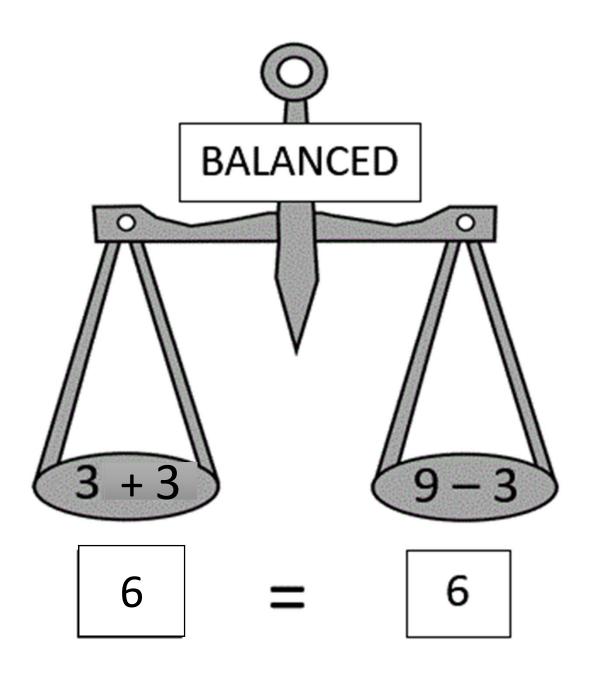
LEARNING OBJECTIVES



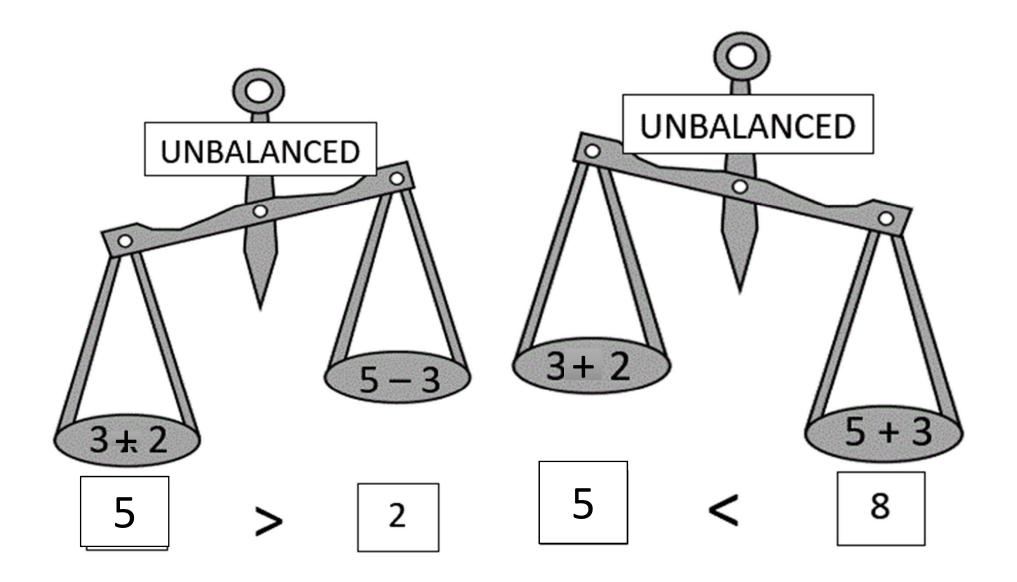
- define a balanced equation
- Solve problems on balancing equation

WHAT IS A BALANCED EQUATION?

A balanced equation is an equation where both sides are equal to the same amount



Remember equals
means
balanced/
the same as



How to balance a mathematical equations



Remember - equals means balanced/the same as

Step 1} find the value of the side of the equation without any missing numbers

Step 2 } make sure the value on the other side of the equation is equal to this value

METHODS





Additive inverse Collecting the like terms

ADDITIVE INVERSE

The additive inverse of a number x is the number that, when added to x, gives zero

Example The additive inverse of 20 is -20i.e 20 + (-20) = 0

Complete the missing numbers using the inverse. Then check your answers using a calculator!



2. Y + 58 = 108



The additive inverse of -22 is +22

The additive inverse of +58 is - 58

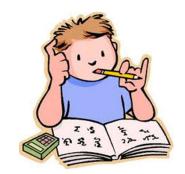
method 2



Collect the like terms

$$y = 108 - 58$$

$$y = 50$$



Balance the following equations



$$1.102 + 19 = ___ - 54$$

2. 97 - 14 = ___ + 33



$$121 = 175 - 54$$
 $121 = 121$

121 = 121 using additive method

$$83 = 50 + 33$$

$$83 = 83$$

SUMMARY

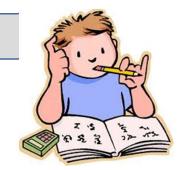


A balanced equation is an equation where both sides are equal to the same amount

METHOD

- **✓** Additive inverse
- ✓ Collecting the like terms

ASSIGNMENT



Balance the following equations