

OGUN DIGICLASS

Mathematics

Theme: Simple Equation

Topic: Algebraic Terms

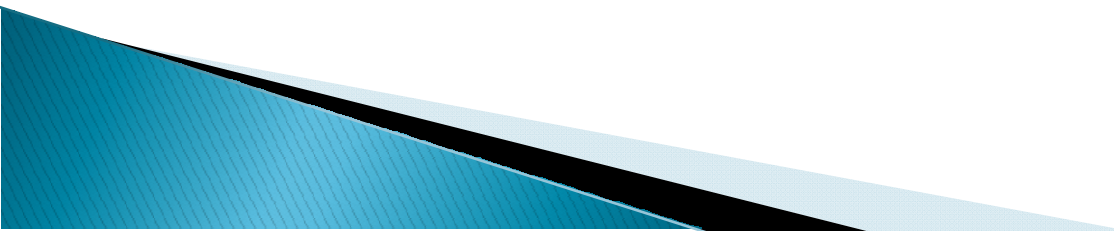


What is equation?

This is a mathematical statement that two expressions are equal or a state of being essentially equal or equivalent

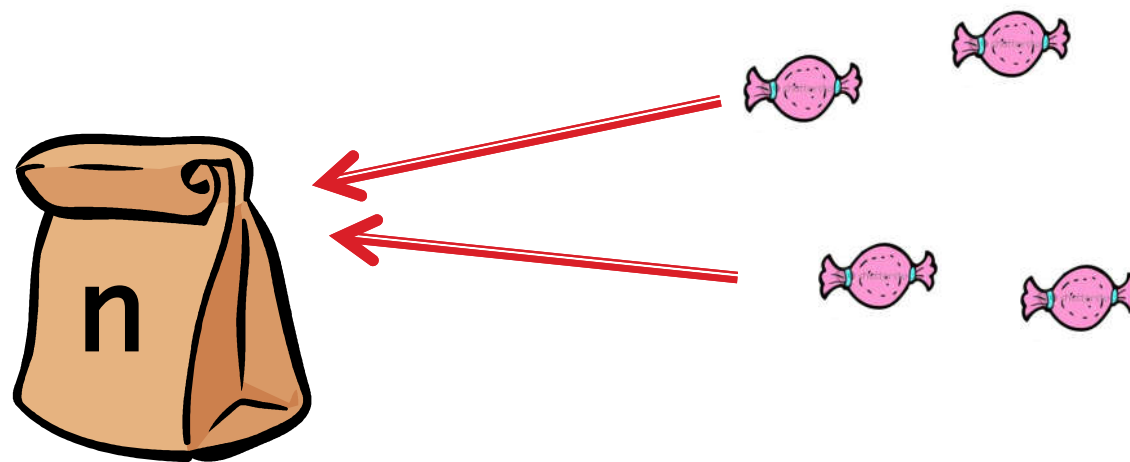
What is algebraic?

This is a branch of mathematics that uses number and letter that represent number



BELL WORK

- ▶ How many sweets are in this pack?



ANSWER

- ▶ We don't know!
- ▶ We have to call it 'n' for aNy number!



- ▶ How many sweets are here??



- ▶ 3 packs of n and 3 more!
- ▶ We write this as $3n + 3$

MAIN 1

- ▶ Write expressions to show how many sweets are on each slide. Remember: –

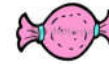
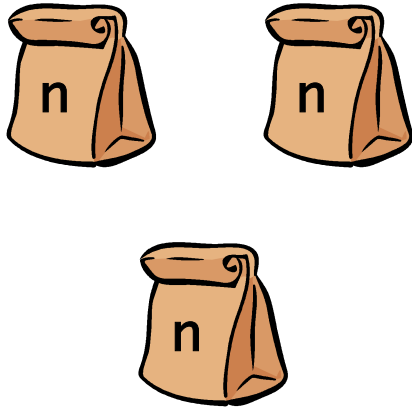
- ▶ n is the number of pack



- ▶ Just write a number for sweet



$$3n + 2$$



$$2n + 1$$



$4n$



$$6n + 5$$



BELL WORK

- ▶ How many sweets are in this different bag?



ANSWER

- ▶ We STILL don't know!!!
- ▶ This time we will call it 'm'



RE-CAP

- ▶ How many sweets were in this pack?



▶ n

MAIN 2

- ▶ Can we say how many sweets we have if we have one bag each?

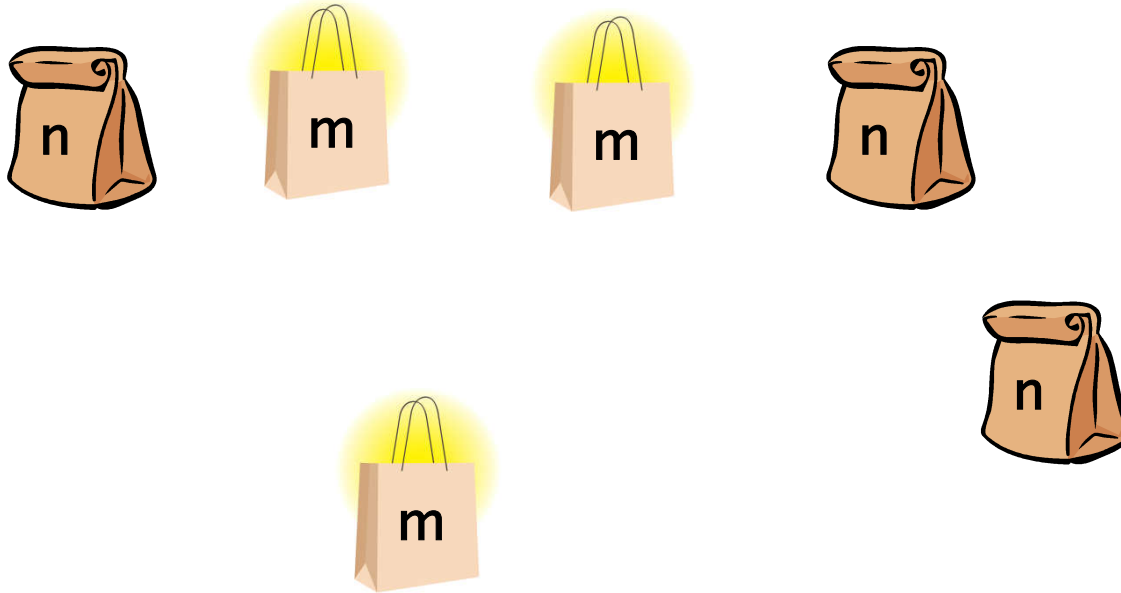


- ▶ Not exactly, no
- ▶ $n + m$

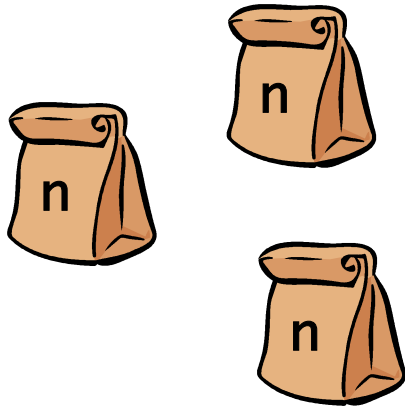
$$2n + 4m$$



$$3n + 3m$$



$$3n + m$$



$$4n + 3m$$



Got the idea?

- ▶ Remember what sweets were?



- ▶ Just numbers: + 3

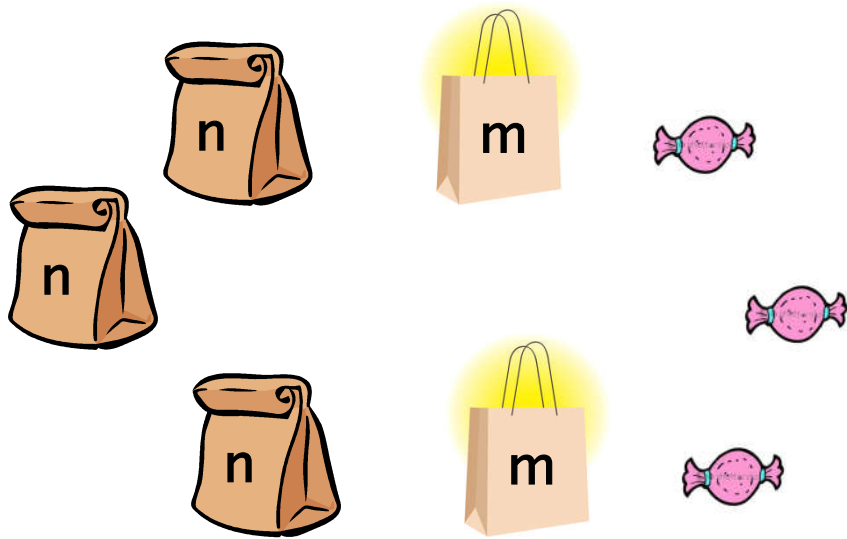
$$2n + 1$$



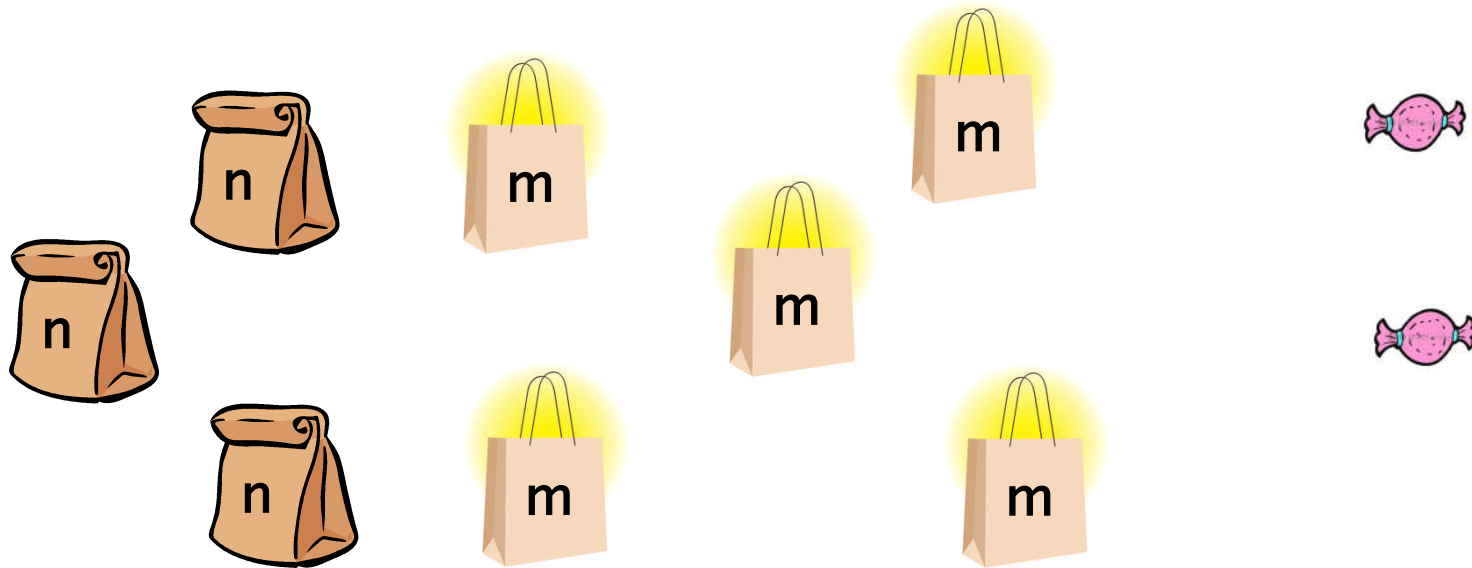
$$2m + 2$$



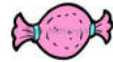
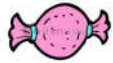
$$3n + 2m + 3$$



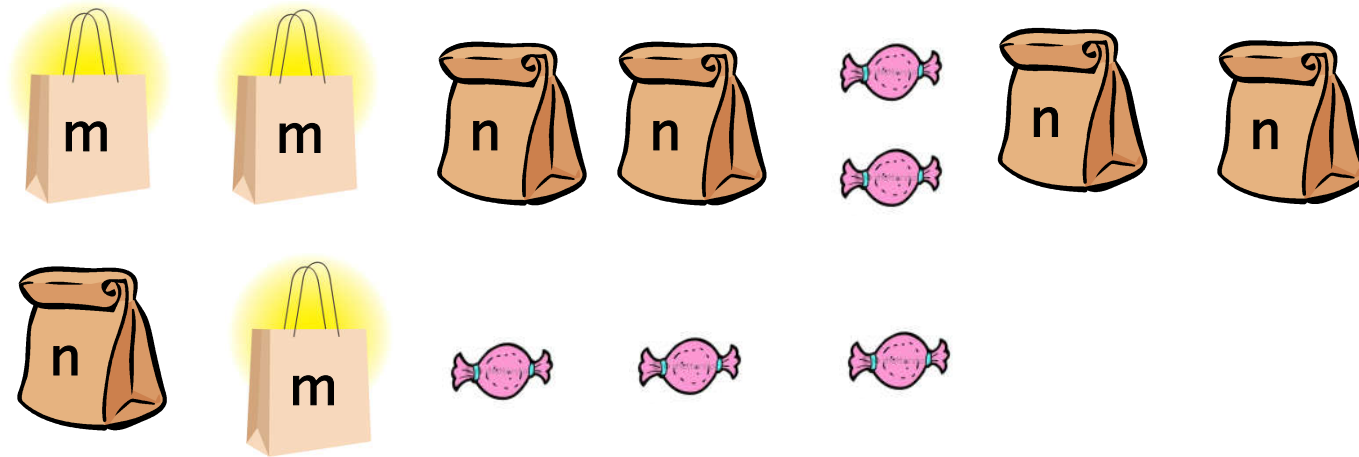
$$3n + 5m + 2$$



$$n + 4m + 4$$



$$5n + 3m + 5$$



Addition of Algebraic Expression

Example

$$3m + 2a + 4m =$$

Addition of Algebraic Expression

Example

$$5b + 4a + 3a + 2m =$$

Subtraction of Algebraic Expression

Example

$$6m - 4m =$$



Exercise

Simplify the following.

- 1. $3a + 5a$**
 - 2. $8t - 4t - t$**
 - 3. $2y + 3y + w + 2w$**
 - 4. $10m - 4m - 3m$**
 - 5. $12k + 7k - 20k + 5k$**
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