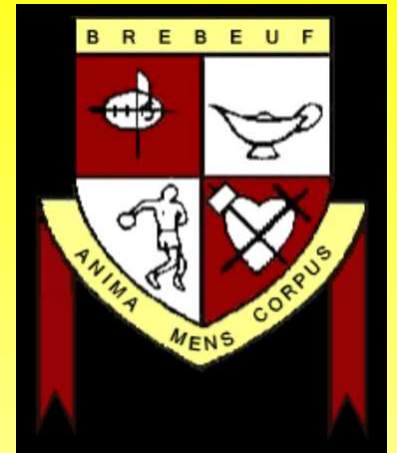


ST. JEAN DE BREBEUF MATHEMATICS



INTRODUCTION

GET READY Y!!!

INTRODUCTION

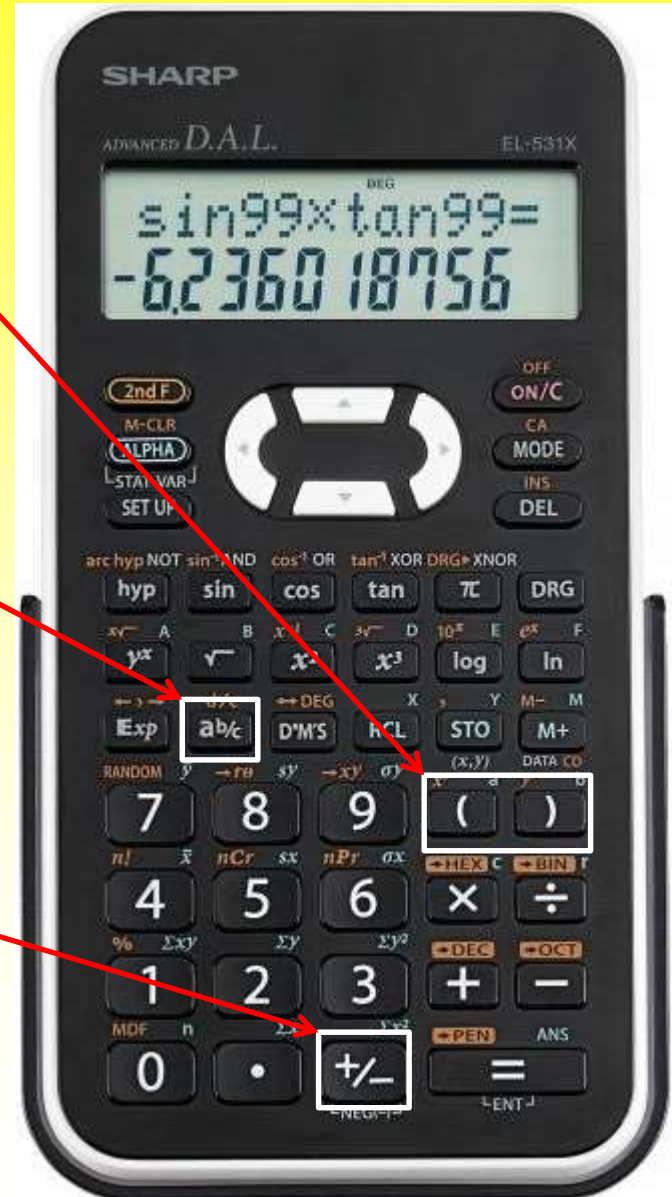
GET READY!!!!

GET TO KNOW YOUR CALCULATOR!!!

BRACKETS
(used for
*BEDMAS/Order
of Operations*)

FRACTION KEY

INTEGER KEY
To make numbers **negative**



INTRODUCTION GET READY!!!!

EXAMPLE Operations with Fractions and Decimals

Express each fraction in its **lowest terms** and as a decimal

$$\begin{aligned} \text{(a)} \quad & \frac{5}{20} \xrightarrow{5/5} \frac{1}{4} \\ & \xrightarrow{20/5} \\ & = \frac{1}{4} \\ & = 0.25 \end{aligned}$$

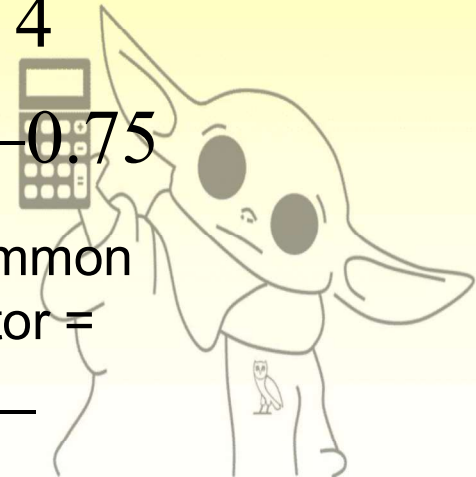
Common
factor =
5

$$\begin{aligned} \text{(b)} \quad & \frac{12}{32} \xrightarrow{12/4} \frac{3}{8} \\ & \xrightarrow{32/4} \\ & = \frac{3}{8} \\ & = 0.375 \end{aligned}$$

Common
factor =
4

$$\begin{aligned} \text{(c)} \quad & \frac{-18}{24} \xrightarrow{-18/6} \frac{-3}{4} \\ & \xrightarrow{24/6} \\ & = \frac{-3}{4} \\ & = -0.75 \end{aligned}$$

Common
factor =
6



First, must find a **common factor**
→ A number that divides evenly into both numbers

INTRODUCTION GET READY!!!!

EXAMPLE *Operations with Integers*

Simplify the following expressions

$$(a) \quad 5 + (-3)$$

$$= 5 - 3$$

$$= 2$$

$$(b) \quad -7 + 5$$

$$= -2$$

$$(c) \quad 4 - (-9)$$

$$= 4 + 9$$

$$= 13$$



INTRODUCTION GET READY!!!!

EXAMPLE Putting It All Together

Simplify the following expressions and express in **lowest terms**

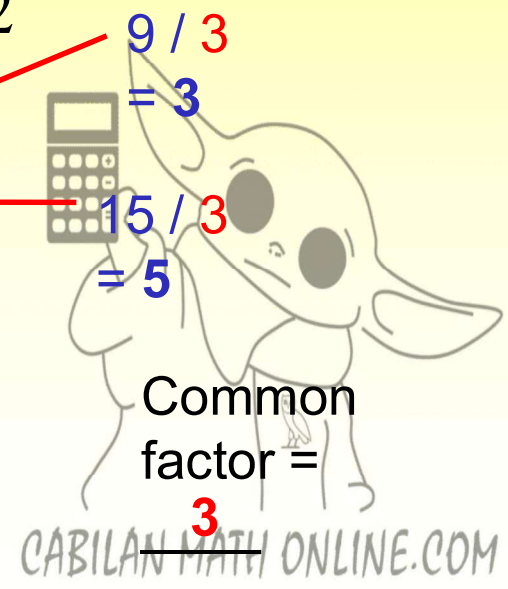
$$\begin{aligned} \text{(a)} \quad & \frac{4+3}{20-6} \\ & \frac{7}{14} \quad \begin{array}{l} 7/7 \\ = 1 \end{array} \\ & = \frac{1}{2} \quad \begin{array}{l} 14/7 \\ = 2 \end{array} \end{aligned}$$

$\frac{1}{2}$

Common factor = 7

$$\begin{aligned} \text{(b)} \quad & \frac{12+(-3)}{13-(-2)} \\ & = \frac{12-3}{13+2} \\ & = \frac{9}{15} \quad \begin{array}{l} 9/3 \\ = 3 \end{array} \\ & = \frac{3}{5} \quad \begin{array}{l} 15/3 \\ = 5 \end{array} \end{aligned}$$

$\frac{3}{5}$



INTRODUCTION GET READY!!!!

EXAMPLE Putting It All Together

Solve for "x"

(a) $x + 1 = 5$

$x = 5 - 1$

$x = 4$

(b) $-6x = 18$

$-6 \quad -6$

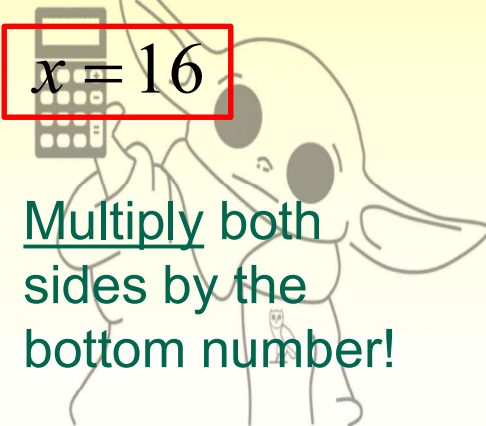
$x = -3$

(c) $\frac{x}{2} = 8$

$2\left(\frac{x}{2}\right) = 2(8)$

$x = 16$

Divide both sides by the coefficient (number in front of the letter)



Multiply both sides by the bottom number!

INTRODUCTION GET READY!!!!

EXAMPLE *Substituting Variables*

Evaluate each expression for $x = 5$

* Substitute the x with 5 and simplify using the calculator

$$\begin{aligned} \text{(a)} \quad y &= 3x - 7 \\ &= 3(5) - 7 \\ &= 8 \end{aligned}$$

$$\begin{aligned} \text{(b)} \quad y &= -2x + 7 \\ &= -2(5) + 7 \\ &= -3 \end{aligned}$$



CABILAN MATH ONLINE.COM

INTRODUCTION GET READY!!!!

HOMework

Page 98 – 99 (attached
to package)

#1 – 8



CABILAN MATH ONLINE.COM