Essential Question: How do we solve equations involving formulas?

Do Now:

Write as many formulas as you can (Hint: Think of formulas discussed during math and science classes).

1.

2.

3.

4.

5.

6.

Formula:

Dependent Variable: A variable in a relationship (formula). Its value depends upon or is determined by the other variable(s) (independent variable).

Independent Variable: A variable in a relationship (formula). Its value determines the value of the other variable (dependent variable).

Examples:

α.

b.

Using a Formula

1. Using the formula
$$F = \frac{9}{5}C + 32$$
, find F° if $C = 25^{\circ}$ 2. If $F^{\circ} = -22$, find C°

2. If
$$F^{\circ} = -22$$
, find C°

3. What happens to the circumference of a circle if the radius is multiplied by 5?

Writing Formulas

Bes

and \$3.50 per child admission.

Best Bikes Rental		
	Insurance feeDaily ChargeMileage Charge	\$650 \$80 \$0.10 per mile
A .	. How much would it cost to rent a bike for 4 days and "drive" it 350 miles?	
В.	Write a formula for calculating	the total cost of a bike rental at Best Bikes.
What procedure can we use to write a formula?		
1.		
2.		
Examples:		
1.	Write a formula for calculating there is a one time membership	the cost of video rentals if each video costs \$1.50 to rent and fee of \$50.00.

2. Write a formula for calculating the ticket sales if a theater charges \$7.50 per adult admission

3. Write a formula calculating Stanley's salary for one day if he earns a daily salary of \$63.00

and \$8.50 per hour in overtime following 9 hours of work.