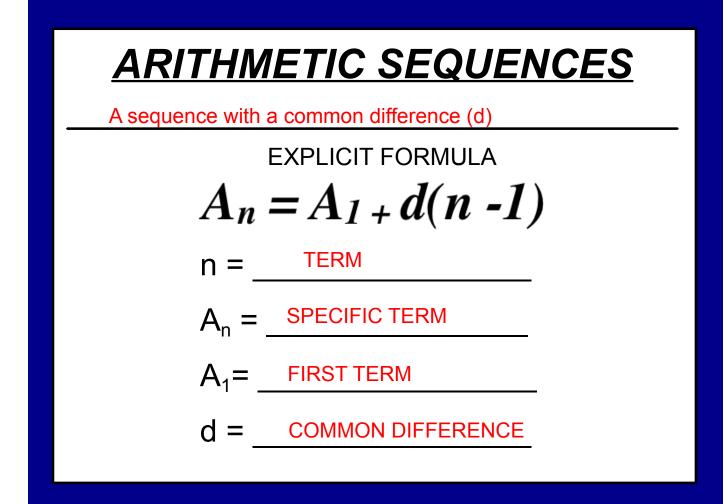
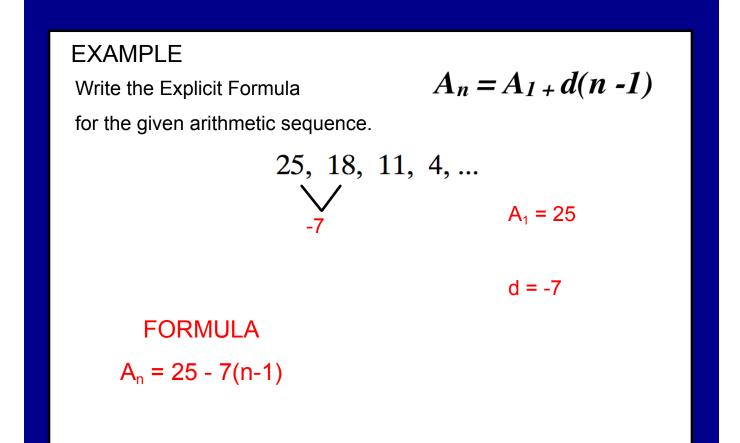
<u>SEQUENCES</u>	
Sequence: <u>A set of objects that follow a pattern.</u>	
Term: The placement of the object in the sequence	
TWO TYPES OF SEQUENCES	
ARITHMETIC	GEOMETRIC
(+ / -)	(x / ÷)





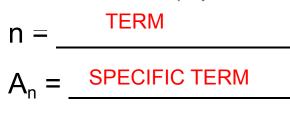
EXAMPLE Write the Explicit Formula $A_n = A_{1+} d(n-1)$ for the given arithmetic sequence & Find the given term. $33, 35, 37, 39, \dots$ $4_1 = 33$ FORMULA $A_n = 33 + 2(n-1)$ $A_{35} = 33 + 2(35-1) = 101$

GEOMETRIC SEQUENCES

SEQUENCE THAT HAS A COMMON RATIO

EXPLICIT FORMULA





r = <u>COMMON RATIO</u>

(Found by Dividing Terms)

EXAMPLE Write the Explicit Formula for the given geometric sequence. -2, 8, -32, 128, ... -2, 8, -32, 128, ... $A_{1} = -2$ FORMULA $A_{n} = -2(-4)^{(n-1)}$

EXAMPLE Write the Explicit Formula for the given geometric sequence & Find the given term. -1, -2, -4, -8, ... -1, -2, -4, -8, ... X = -1FORMULA FORMULA r = 2 $A_n = -1(2)^{(n-1)}$ $A_{11} = -1(2)^{(11-1)} = -32$

