1. Using the number pattern below, predict how many blocks will be in the 6th figure?



Figure 1 Figure 2 Figure 3

2, 5, 8, 11, 14, 17

2. Identify the pattern in the table below.

x	y
1	3
2	6
3	9

Hint: what do you do to 'x' to get 'Y'?

You multiply "x" by 3 to get Y

Or y = 3x

3. If a = 5 and b = (-3), find the value of:

2a + 7b

$2(5) + 7(-3) = 10 + (-21) = -11$

4. Using the expression $4x$ +3, complete the table.

x	$4x$ + 3
1	7
2	11
3	15

5. Graph and label the following points.

A) (5, 3)

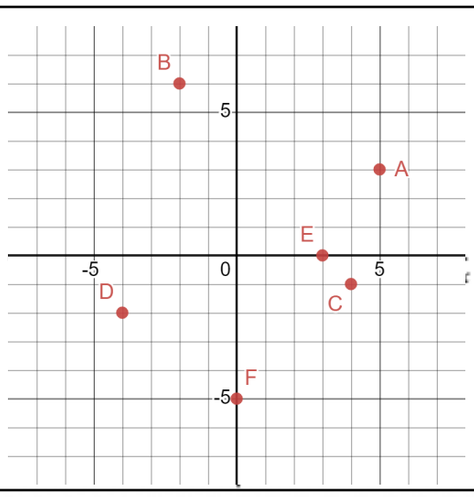
B) (-2, 6)

C) (4, -1)

D) (-4, -2)

E) (3, 0)

F) (0, -5)



6. In a school cafeteria, tables can be placed together so that: 6 people can be at **one** table, 10 people at **two** tables, and 14 people at **three** tables.



1 table



2 tables



3 tables

A) Complete the following:

Number of tables	Number of people
1	6
2	10
3	14
4	18
5	22

B) Write an expression to represent the pattern rule.

If p = number of people and t = number of tables, then p = 4t +2



7. A plain pizza costs $14 plus $3 for each topping.

A) What would a 4 topping pizza cost?

4 toppings x $3/topping = $12
$14 + $12 = $26

B) You have $36 to order pizzas and toppings.

i) What is the maximum number of pizzas and/or toppings you could order?

7 toppings ($3 x 7 toppings = $21)

ii) How much money do you still have?

$14 + $21 = $35
$36 - $35 = $1 left over

