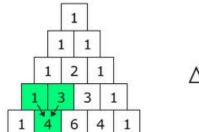
March 12, 2018 Chapter 4 Linear Relations

Warm-Up

What you already know....

Find the value of P when n=1

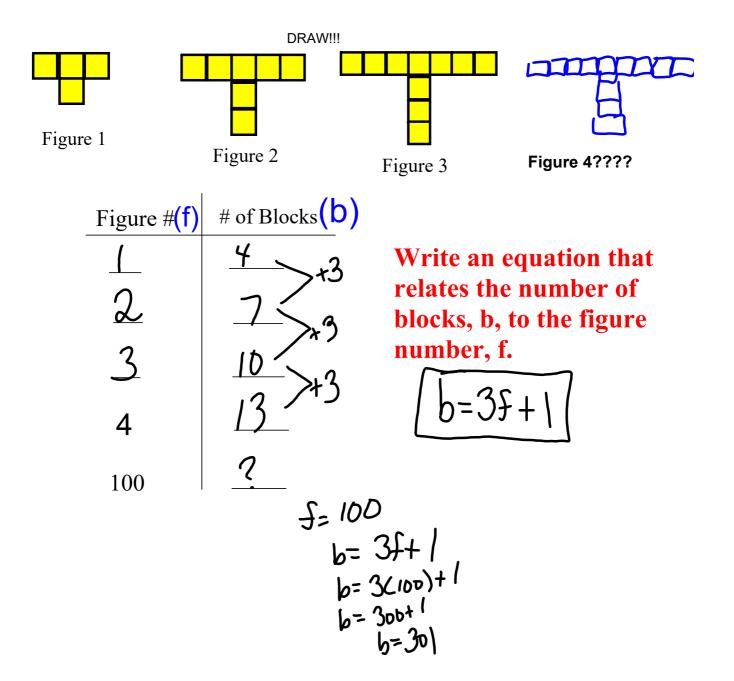
Let's Explore Patterns...



٨

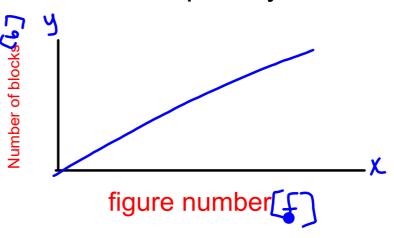
Δ

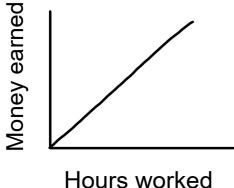
Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ



Linear relation

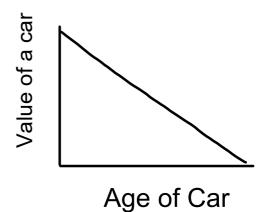
- When graphed will be a straight line.
- A constant change in one quantity produces a constant change in the related quantity.





As hours worked increases the money earned increases

Positive Relationship



As the age of the car increases the value of the car decreases

Negative Relationship

Patterns in a Table of Values

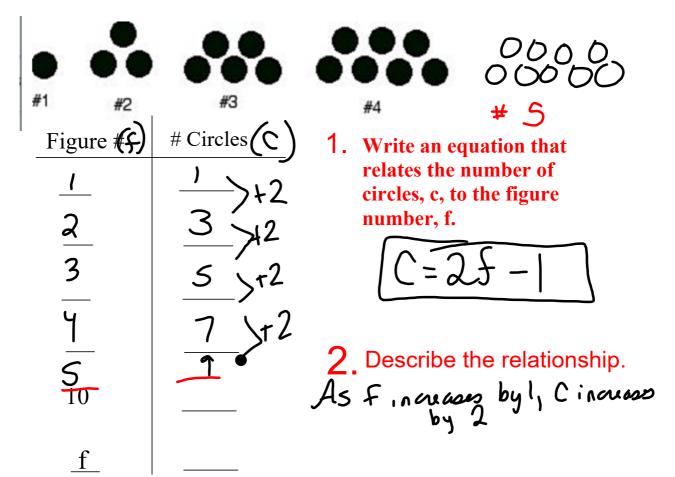
In a table of values, suppose the numbers in the *first* column increase by the same amount.

• If the differences between consecutive numbers in the second column are constant, the relationship is LINEAR.

1) Write the equation

$$y = 5x + 5$$

2) Describe the relationship.



3. How many circles in figure #10

4. If you have 51 circles what

figure number are you at.

$$C = 2f - 1$$

$$51 = 2f - 1$$

$$2f - 1 = 51$$

$$2f - 1 = 51 + 1$$

$$26 = 52$$

$$f - 26$$