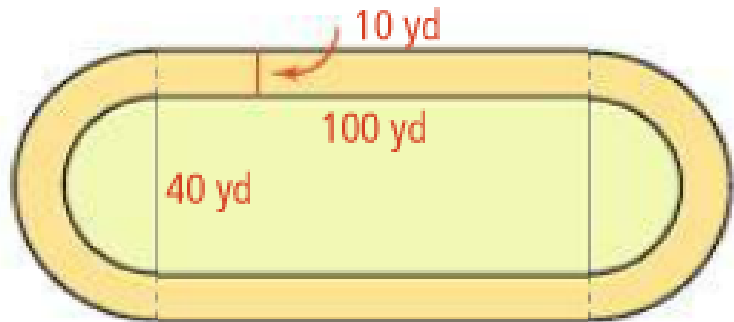


Warm Up

An athletic field is a 100 yd-by-40 yd rectangle with a semicircle at each of the short sides. A running track 10 yd wide surrounds the field. Find the perimeter of the outside of the running track to the nearest tenth of a yard.



Unit 2: Reasoning and Proof

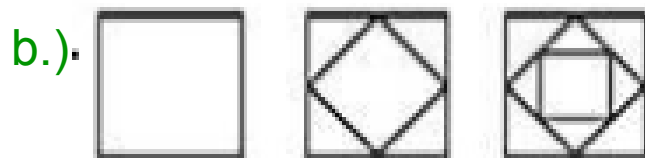
2-1: Patterns and Inductive Reasoning

Obj - SWBAT use inductive reasoning to make conjectures.

Vocabulary

Ex. 1: What are the next two patterns in each sequence?

a.) 45, 40, 35, 30, ...



Ex. 2: What conjecture can you make about the twenty-first term in the sequence:

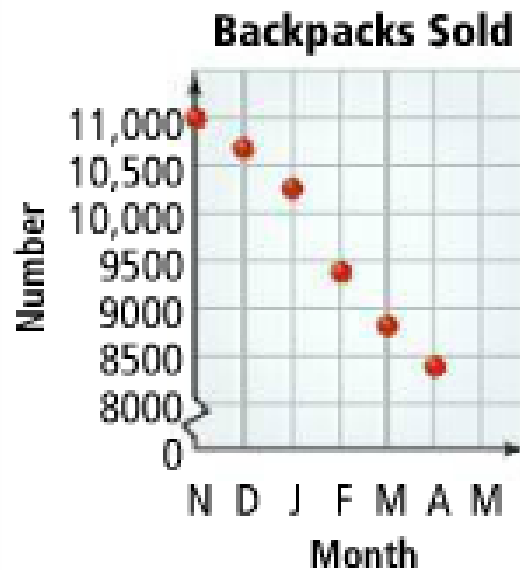
R, W, B, R, W, B, R, W, B, ...

Ex. 3: What conjecture can you make about the sum of the first 30 odd numbers?

homework

pg. 85 #6-30 even

Ex. 4: Sales of backpacks at a nationwide company are shown in the graph. What conjecture can you make about backpack sales in June?



Ex. 5: What is a counterexample for each conjecture?

a.) If a flower is red, it is a rose.

b.) One and only one plane exists through any three points.

c.) When you multiply a number by three, the product is divisible by 6.

homework

pg. 86 #32 - 46 even