BRING TEXTBOOK VOLUME 2!

(we are actually using it during class today)

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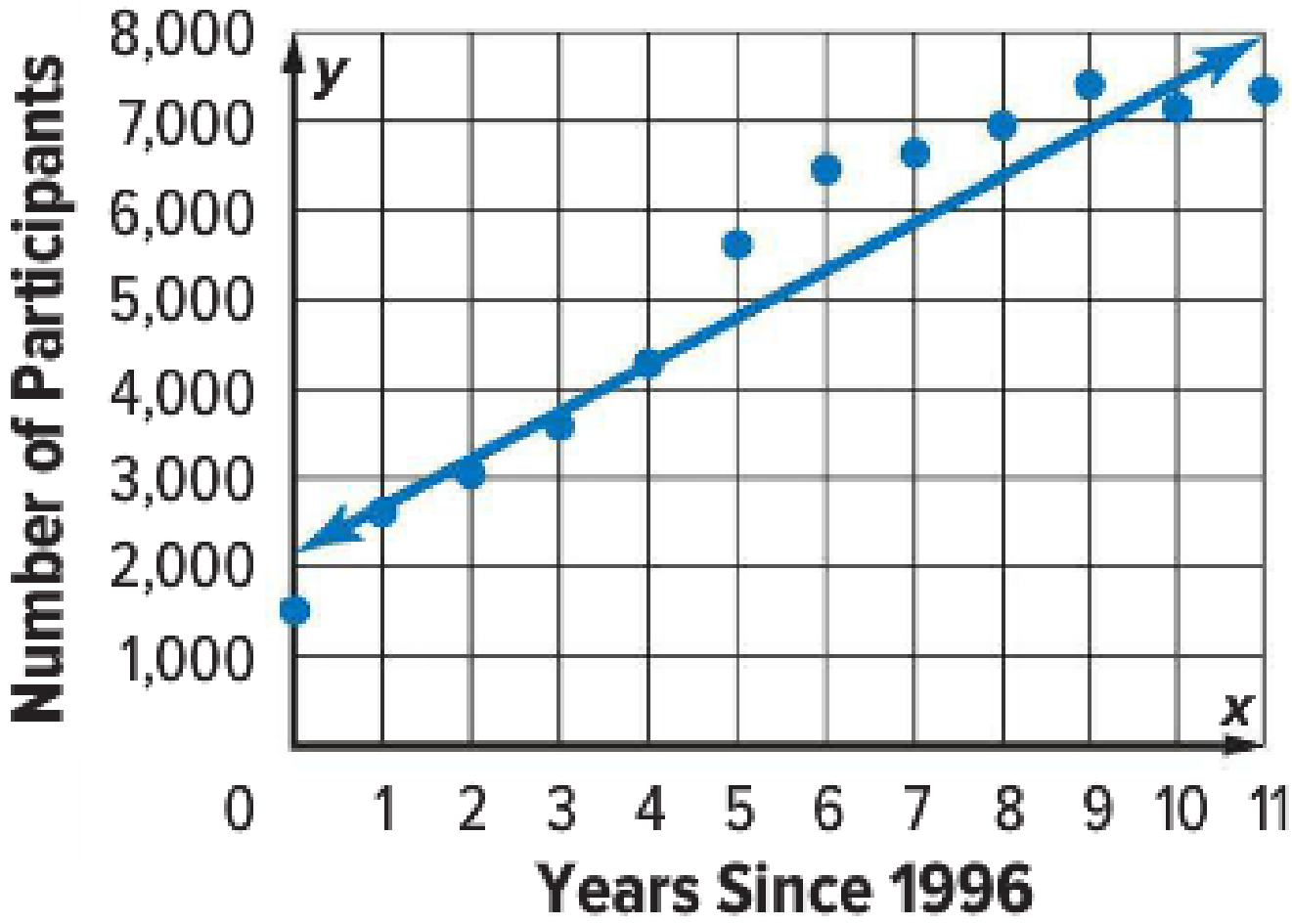
Warmup 4/(# of points Tennessee beat Iowa by – 2)

GET A CALCULATOR

REMEMBER TO PUT IT BACK AFTER CLASS

1) **Do page 681 #3. (You can write it in the book. You will not have to tear it out. On your warmup page, just write "book problem")**

("Interpret" means "describe what the numbers represent in terms of the situation)

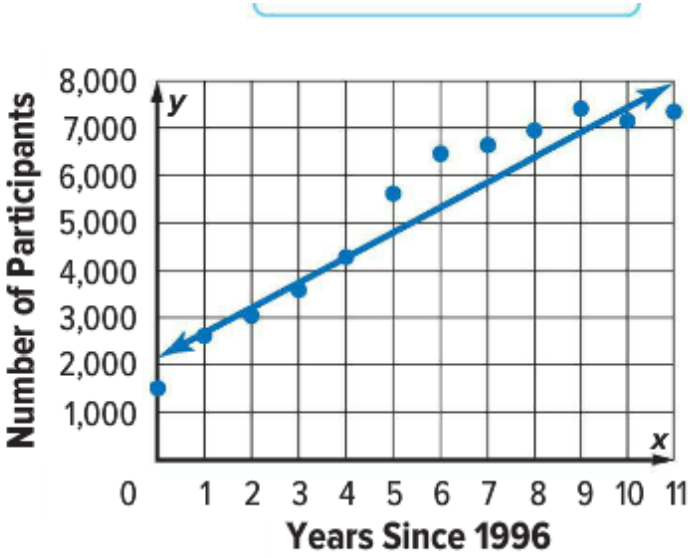

Number of Participants
8,000
7,000
6,000
5,000
4,000
3,000
2,000
1,000
y
x
0
1
2
3
4
5
6
7
8
9
10
11
Years Since 1996

#3

3 The scatter plot shows the number of girls who participate in ice hockey. (Examples 3 and 4)

a. Write an equation in slope-intercept form for the line of best fit that is drawn, and interpret the slope and *y*-intercept. **Sample answer: $y = 500x + 2{,}250$; Every year an additional 500 girls play ice hockey. In 1996, 2,250 girls played ice hockey.**

b. Use the equation to make a conjecture about the number of girls that will participate in ice hockey in 2020. **Sample answer: 14,250 girls**



Worksheet Answers

- Document Camera

Table of Contents (2nd Semester)

p. 1 Exponent Basics (1.2)
p. 2 Multiplying and Dividing Powers (1.3)
p. 3 Power to a Power (1.4)
p. 4 Zero & Negative Exponents (1.5)
p. 5 Scientific Notation (1.6)
p. 6 Calculating with Scientific Notation (1.7)
p. 7 Angle Basics
p. 8 Angles formed by Parallel Lines (5.1)
p. 9 Transformations (6.1 – 6.3)
p. 10 Rotations (Handout)
p. 11 Reverse Transformations
p. 12 Pythagorean Theorem
p. 13 Distance on the Coordinate Plane (handout)
p. 14 Review: Circles
p. 15 Volume of Prisms and Cylinders
p. 16 Volume of Cones, Spheres, and Pyramids
p. 17 Scatter Plots & Lines of Best Fit
p. 18 Frequency Tables (guided notes!)

Numerical Data

Which of these are numerical data?

- Age
- Height
- Favorite Color
- Name
- # of letters in name
- Street you live on
- Distance you live from school

A scatter plot compares **NUMERICAL data**

- Age vs. Height
- # of letters in name vs. your grade in science
- Time you wake up vs. amount of time it takes you to get ready

What if it's NOT numerical data???

- Is there a relationship between hair color and eye color? For example, are blondes more likely to have blue eyes???

You would set up a frequency table

Hair Color

Eye Color	Blonde	Brown/Black	Red
Blue			
Brown			
Hazel			
Green			

Sports/Music/Movies

See Guided Notes

FREQUENCY

	Music	Total
Boys	10	10
Girls	11	300

Is there an association between school and involvement in sports???

- In other words: Are the students at one school **more likely** to participate in sports than students at the other school?

	Sports	No Sports
Bluffington High	400	500
Bayside High	900	1800

% of Bluffington High who do sports: $\frac{400}{900} \approx 44\%$

% of Bayside High who do sports: $\frac{900}{2700} \approx 33\%$

Bluffington High students are MORE LIKELY to participate in sports!!!

*****IMPORTANT***: To find if there is an association, go by the percentages, not just the raw numbers!!!**

No Homework

- (unless you never did the benchmark)