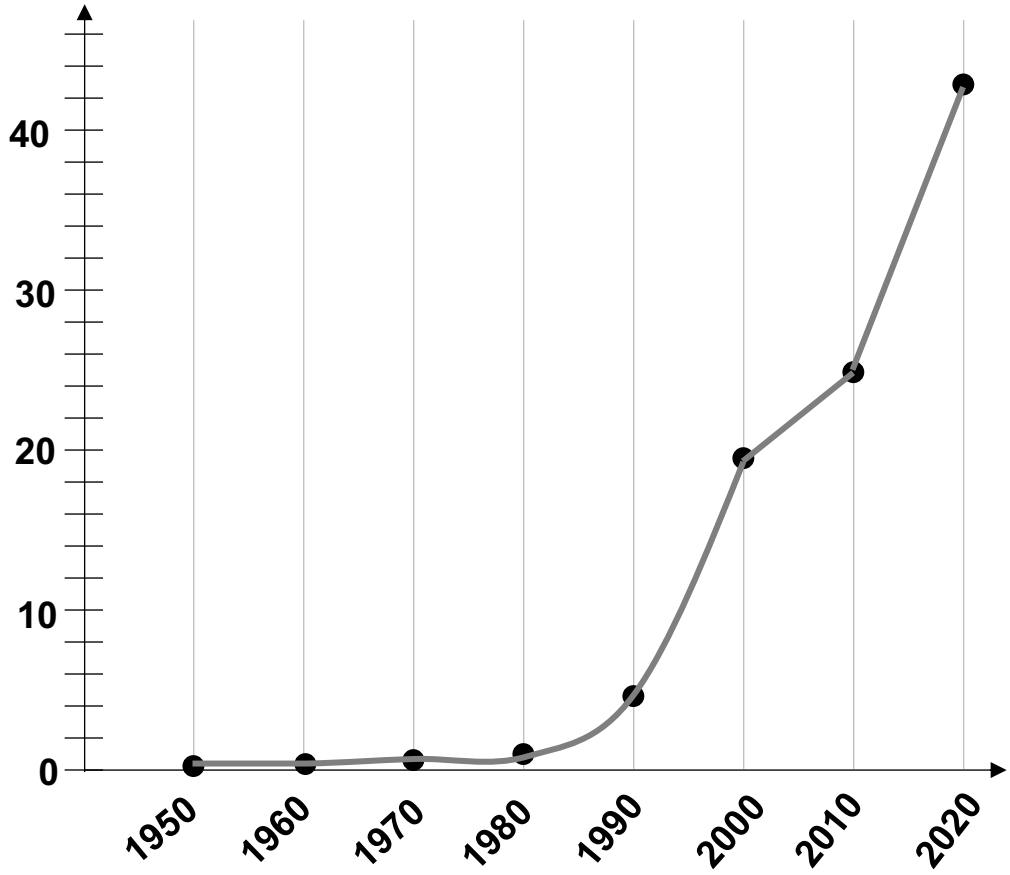
6-7 MATH TALKS
DATA TALK A

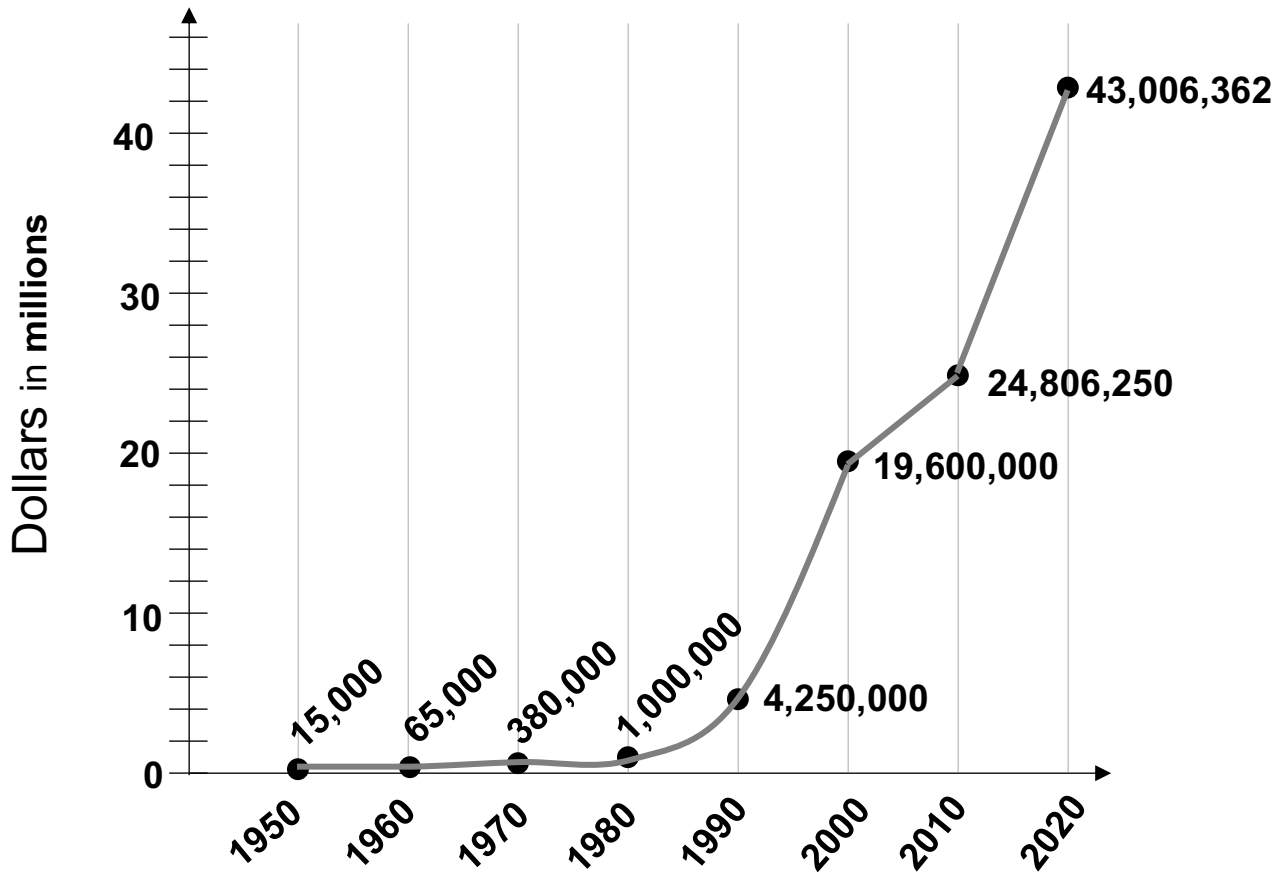


What's happening with this graph?

What are some quantities that might have increased like this from 1950 to 2020?

Answers will vary

6-7 MATH TALKS
DATA TALK A

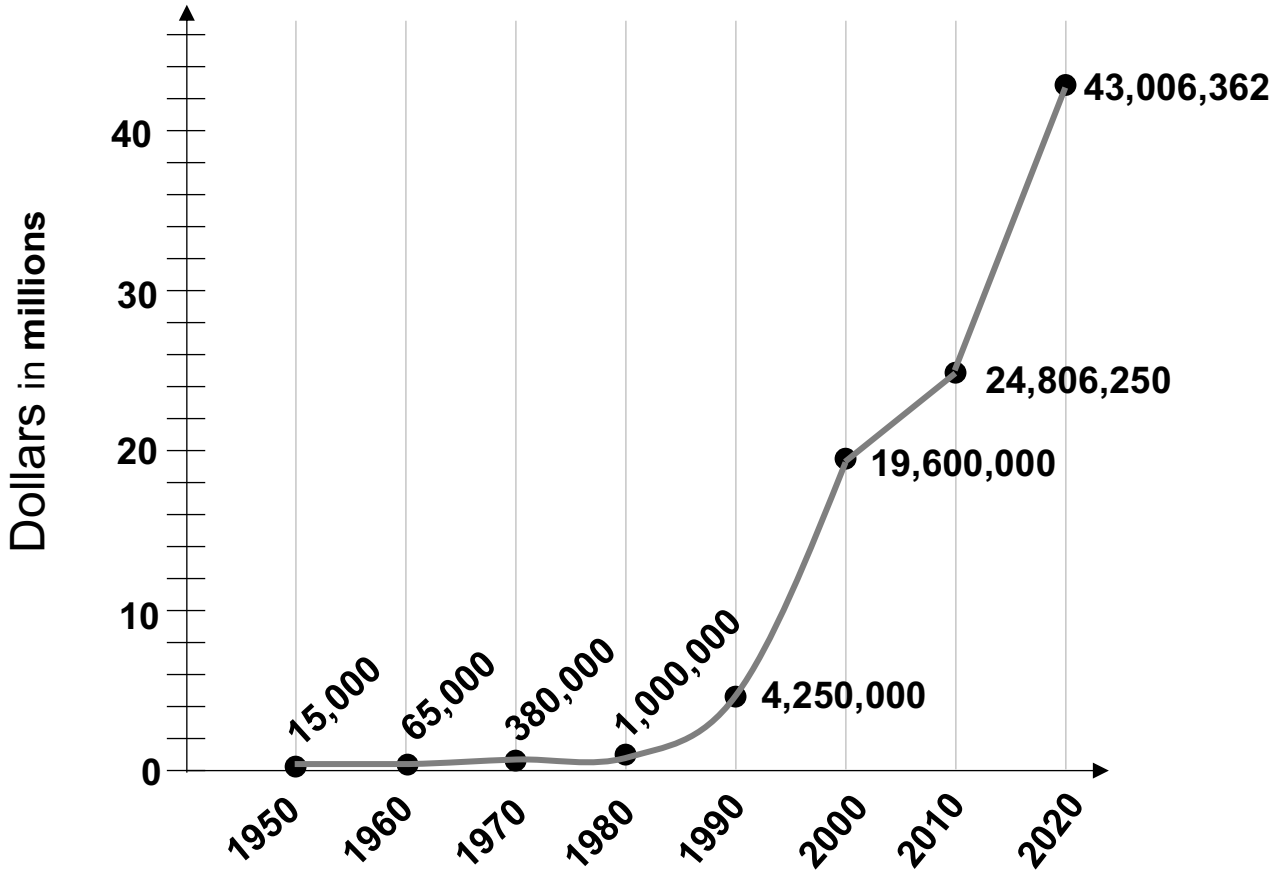


Any more ideas now?

Answers will vary

6-7 MATH TALKS
DATA TALK A

Highest paid NBA player at the start of each decade
(annual salary)



Anything surprise you?

Any ideas who the players are?

Answers will vary

6-7 MATH TALKS
DATA TALK A

1950	George Mikan	Minneapolis Lakers	15,000
1960	Wilt Chamberlain	Philadelphia 76ers	65,000
1970	**Pete Maravich**	Atlanta Hawks	380,000
1980	Moses Malone	Philadelphia 76ers	
	Julius Erving	Philadelphia 76ers	
	Bill Walton	San Diego Clippers	
	Kareem Abdul Jabbar	Los Angeles Lakers	1,000,000
1990	Patrick Ewing	New York Knicks	4,250,000
2000	Kevin Garnett Minnesota	Timberwolves	19,600,000
2010	**Kobe Bryant**	Los Angeles Lakers	24,806,250
2020	**Stephen Curry**	Golden State Warriors	43,006,362

Anything surprise you?

Did you identify any of them?

Answers will vary

All of the players in **bold** are guards.
Find the percents of one player's salary compared to another's:

- Maravich to Curry — less than 1% (about 0.9%)
- Bryant to Curry — about 58%

6-7 MATH TALKS
DATA TALK A

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	Julius Erving	Philadelphia 76ers	
	Bill Walton	San Diego Clippers	
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What are the mean and median amounts for these player salaries over these decades?

Mean: about $11,640,327
Median: $1,625,000

Does one of these measures better represent this data set compared to the other?

Answers will vary. Neither are great. The lower and higher ends of the salary range differ so immensely that it's hard to find a measure of center that is representative of them all. For example, both the mean and the median are ***so far*** above the earlier players and ***so far*** below the more recent ones.

6-7 MATH TALKS
DATA TALK B

Do teens like spending time with their parents?

Do they think highly of them?

About what % enjoy spending time with parents?

What number seems too low? *Too high?* *About right?*

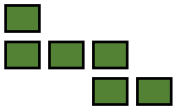
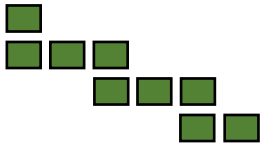
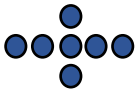
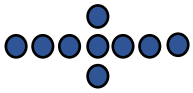
75

About what % think highly of their parents?

What number seems too low? *Too high?* *About right?*

87

6-7 MATH TALKS
PICTURE TALKS

	Step 1	Step 2	Step 3
A			
B			
C			

There are many different ways to see a pattern grow and to represent it in equivalent symbolic expressions. Show students one set per day.

Use the sentence frame, “Start with ___ and add ___ each time” to help as needed.

How is the pattern growing? Explain using words or with an equation.

What would the next picture look like in the pattern?

How many ___ would be in the 5th step? The 12th step?

A: Start with 3 rectangles and add 3 each time. Step 5: 15; Step 12: 36
B: Start with 5 circles and add 2 each time. Step 5: 13; Step 12: 27
C: Start with 1 star and add 4 each time. Step 5: 17; Step 12: 45

6-7 MATH TALKS
NUMBER TALKS

	Option 1	Option 2
A Is it better to…	share $50 among 8 friends	share $96 among 16 friends
B Is it faster to…	read a 360-page book over 5 days (same amount per day)	read a 360-page book over 3 days (same amount per day)
C Is it more to…	run 60 miles over 15 days (same amount per day)	run 40 miles over 12 days (same amount per day)

Show students one set per day. Students should be prepared to justify choices with mathematical reasoning. (Set A is intended to maximize ones' amount of money and Set C is intended to maximize ones' amount of running, but any reasonable justifications should be accepted).

Which option you would choose?

Unit rates are given, but students may use any convincing rate reasoning.
A: $6.25 per person; $6 per person
B: 72 pages/day; 120 pages/day
C: 4 miles/day; 3.33… miles/day