

GRE数学

5.2描述数据图形

M A K E I T E A S Y

5.2.1 表格

1. In the winter, $\frac{2}{3}$ of the cardinal sighting, $\frac{1}{2}$ of the junco sightings, and $\frac{1}{4}$ of the sparrow sightings were in January. What fraction of the total number of sightings of these three bird species in the winter were in January?

- A. $\frac{1}{4}$
 B. $\frac{1}{3}$
 C. $\frac{1}{2}$
 D. $\frac{2}{3}$
 E. $\frac{3}{5}$

Speices	Number of Sightings			
	Winter	Spring	Summer	Fall
Cardinal	30	18	11	20
Goldfinch	5	12	6	9
Junco	12	0	0	6
Nuthatch	8	2	0	4
Robin	6	12	28	18
Sparrow	20	19	23	22
Wren	0	18	30	12

2. For which of the following bird species is the standard deviation of the numbers of sightings shown for the four seasons least?

- A. Cardinal
- B. Junco
- C. Robin
- D. Sparrow
- E. Wren

Speices	Number of Sightings			
	Winter	Spring	Summer	Fall
Cardinal	30	18	11	20
Goldfinch	5	12	6	9
Junco	12	0	0	6
Nuthatch	8	2	0	4
Robin	6	12	28	18
Sparrow	20	19	23	22
Wren	0	18	30	12

3. Which of the following is closest to the average (arithmetic mean) number of cardinal sightings for the 4 seasons?

- A. 12
- B. 14
- C. 16
- D. 18
- E. 20

Speices	Number of Sightings			
	Winter	Spring	Summer	Fall
Cardinal	30	18	11	20
Goldfinch	5	12	6	9
Junco	12	0	0	6
Nuthatch	8	2	0	4
Robin	6	12	28	18
Sparrow	20	19	23	22
Wren	0	18	30	12

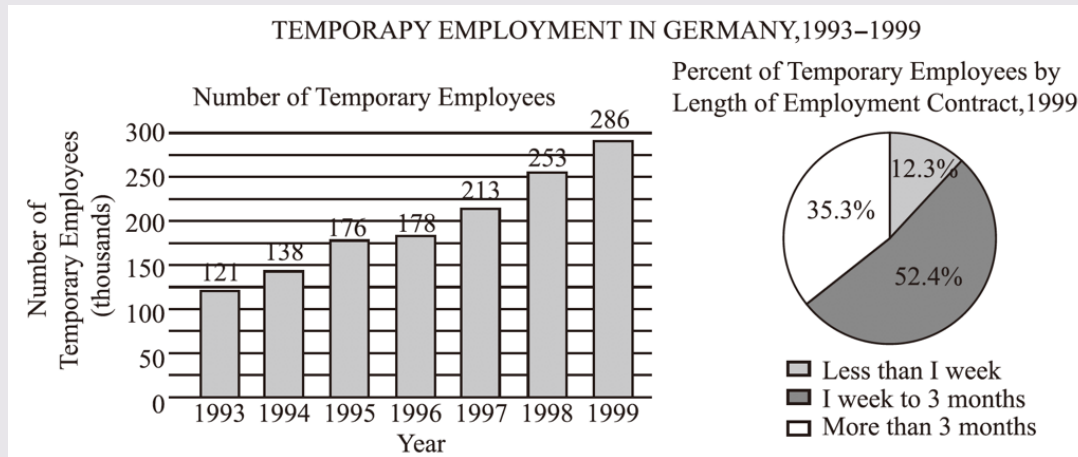
4. By what percent did the number of wren sightings increase from spring to summer? Give your answer to the nearest whole percent.

Speices	Number of Sightings			
	Winter	Spring	Summer	Fall
Cardinal	30	18	11	20
Goldfinch	5	12	6	9
Junco	12	0	0	6
Nuthatch	8	2	0	4
Robin	6	12	28	18
Sparrow	20	19	23	22
Wren	0	18	30	12

5.2.2柱状图+饼图

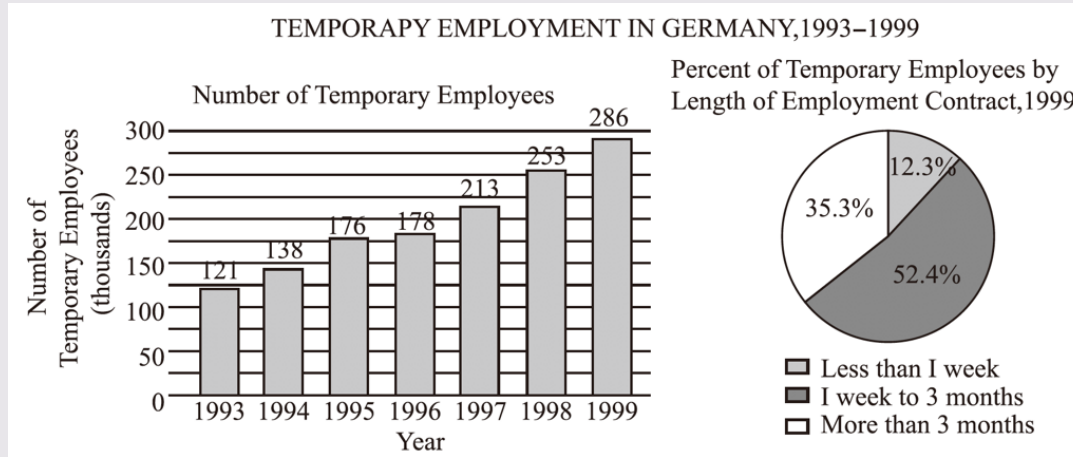
5. Which of the following is closest to the percent increase in the number of temporary employees from 1993 to 1999?

- A. 36%
- B. 58%
- C. 136%
- D. 158%
- E. 236%



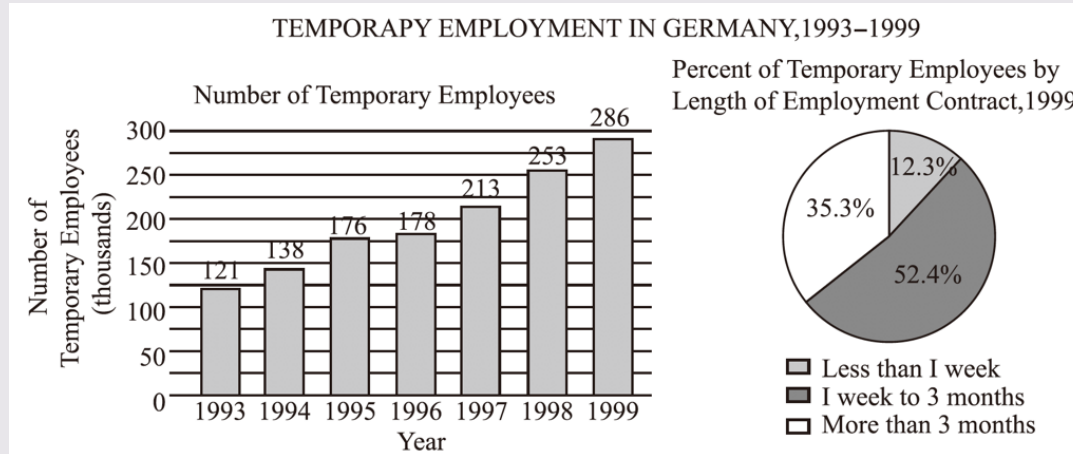
6. In 1999 approximately how many of the temporary employees had an employment contract with a length of at most 3 months?

- A. 185,000
- B. 150,000
- C. 101,000
- D. 35,000
- E. 19,000



7. In 1998 the ratio of the number of female temporary employees to the number of male temporary employees was 1 to x , where $x > 0$. In terms of x , what was the number, in thousands, of female temporary employees in 1998?

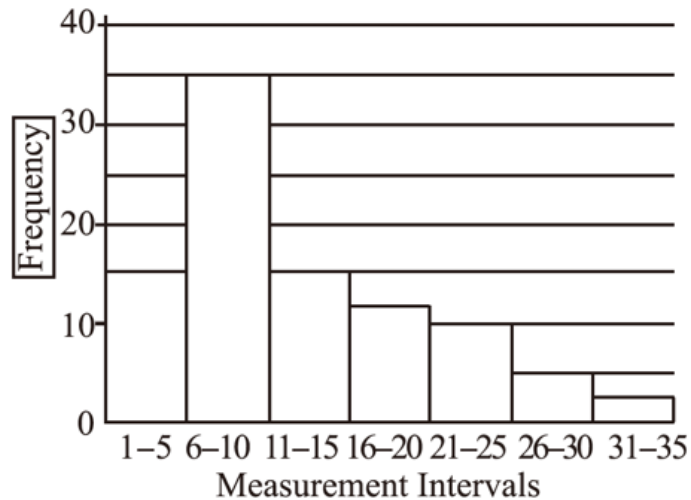
- A. $253(x-1)$
 B. $253(x+1)$
 C. $\frac{253}{x}$
 D. $\frac{253}{x-1}$
 E. $\frac{253}{x+1}$



5.2.3方直图

6. In the course of an experiment, 95 measurements were recorded, and all of the measurements were integers. The 95 measurements were then grouped into 7 measurement intervals. The graph above shows the frequency distribution of the 95 measurements by measurement interval.

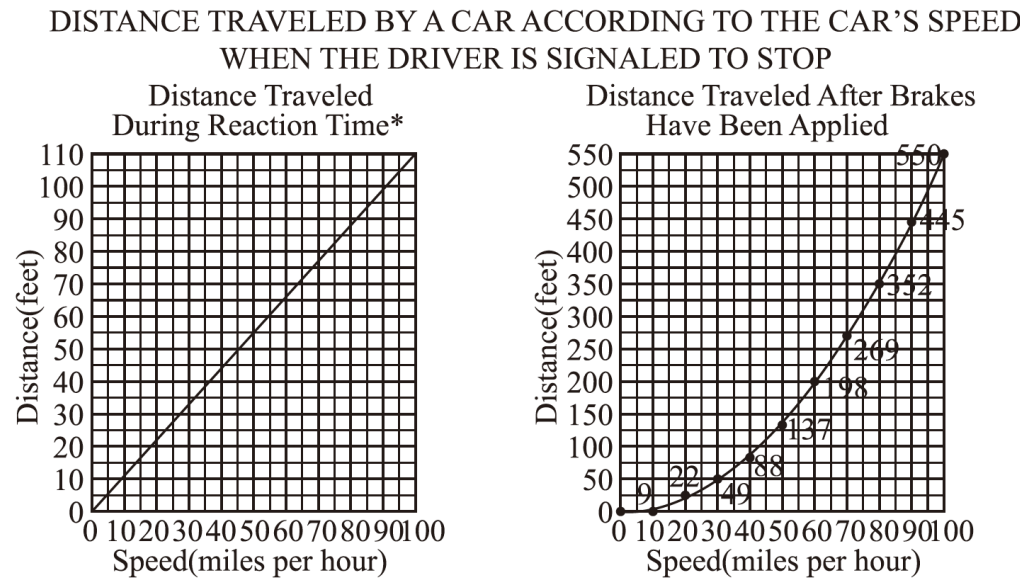
Quantity A: The average (arithmetic mean) of the 95 measurements
 Quantity B: The median of the 95 measurements



5.2.4散点图

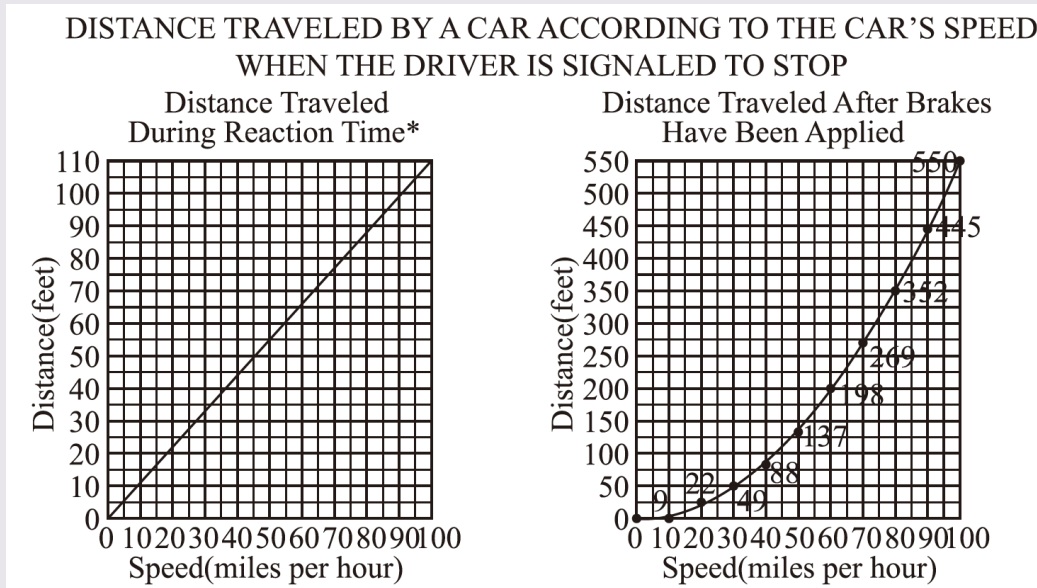
7. The speed, in miles per hour, at which the car travels a distance of 52 feet during reaction time is closest to which of the following?

- A. 43
- B. 47
- C. 51
- D. 55
- E. 59



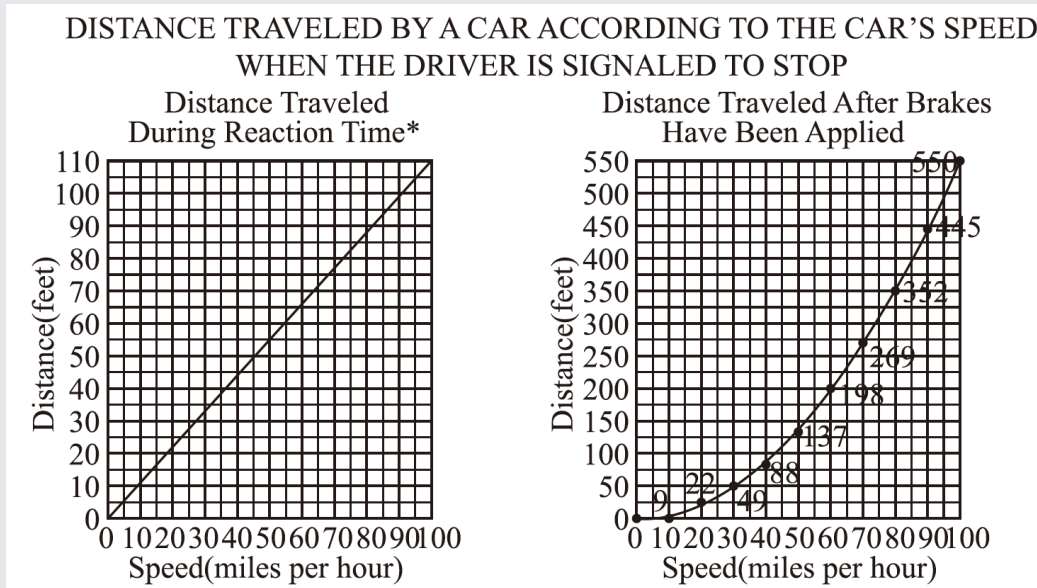
8. Approximately what is the total stopping distance, in feet, if the car is traveling at a speed of 40 miles per hour when the driver is signaled to stop?

- A. 130
- B. 110
- C. 90
- D. 70
- E. 40



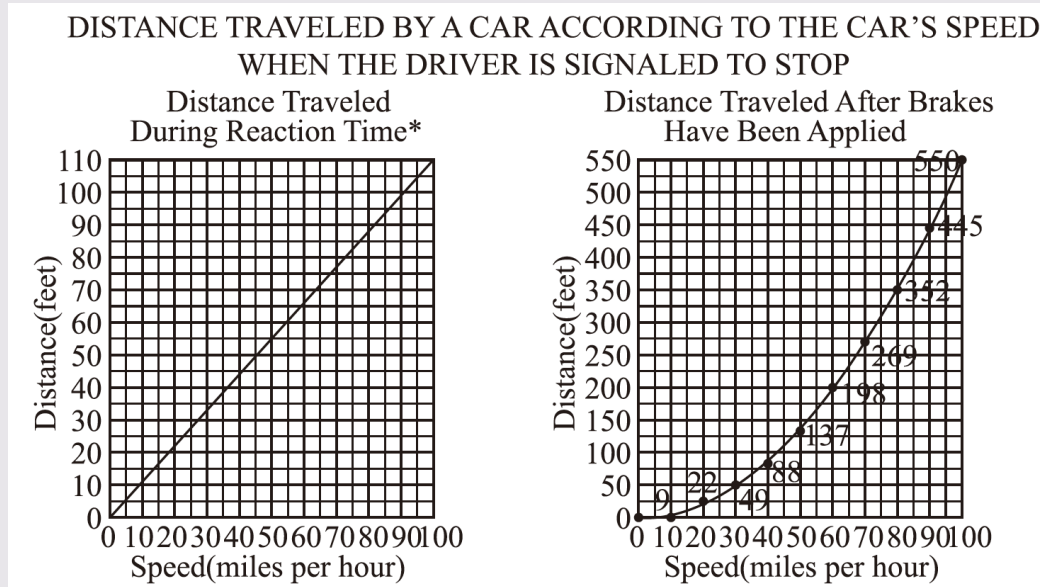
9. Of the following, which is the greatest speed, in miles per hour, at which the car can travel and stop with a total stopping distance of less than 200 feet?

- A. 50
- B. 55
- C. 60
- D. 65
- E. 70



10. The total stopping distance for the car traveling at 60 miles per hour is approximately what percent greater than the total stopping distance for the car traveling at 50 miles per hour?

- A. 22%
- B. 30%
- C. 38%
- D. 45%
- E. 52%

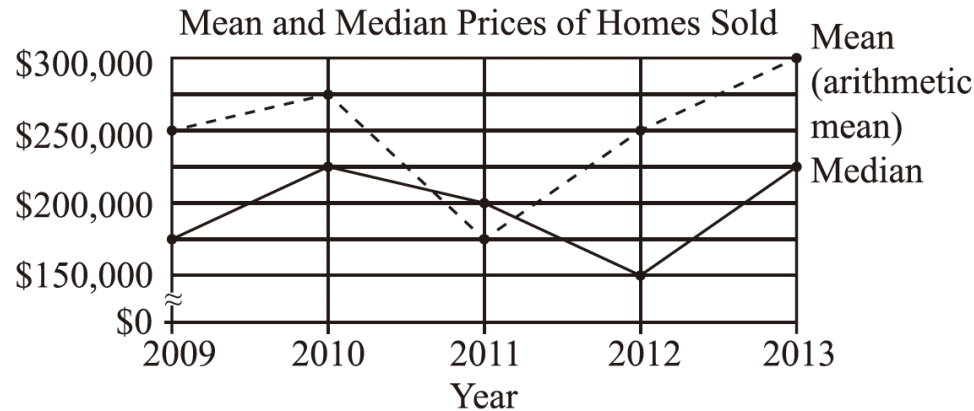


5.2.5时距图

11. Which of the following is closest to the mean of the prices of the 700 homes sold in 2012 and 2013 combined?

HOMES SOLD IN COUNTY T, 2009-2013

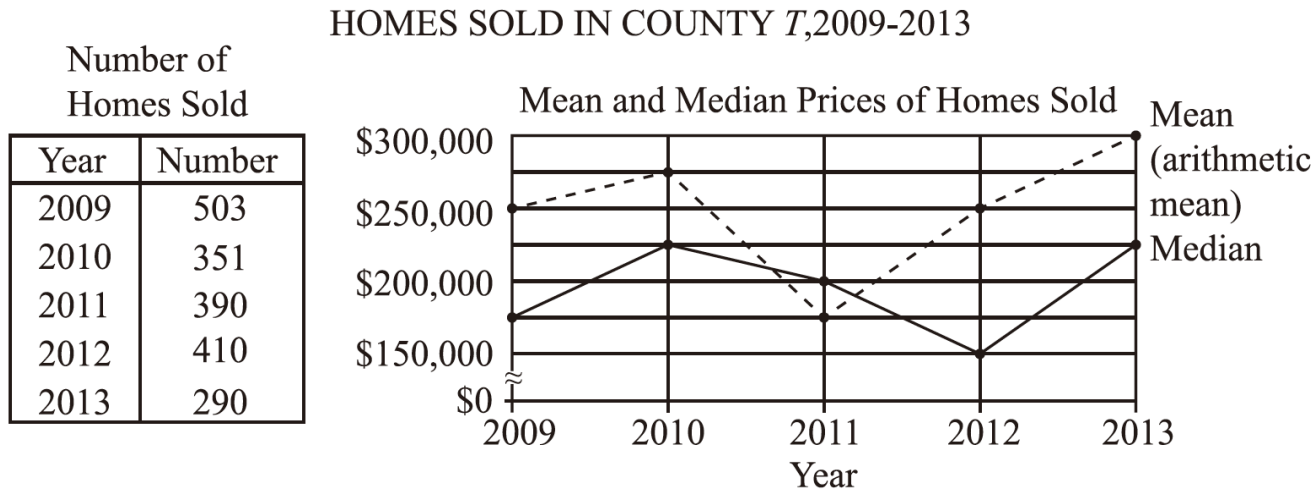
Number of Homes Sold	
Year	Number
2009	503
2010	351
2011	390
2012	410
2013	290



- A. \$265,000
- B. \$270,000
- C. \$275,000
- D. \$280,000
- E. \$285,000

12. By approximately what percent did the median price of homes sold in County T decrease from 2011 to 2012?

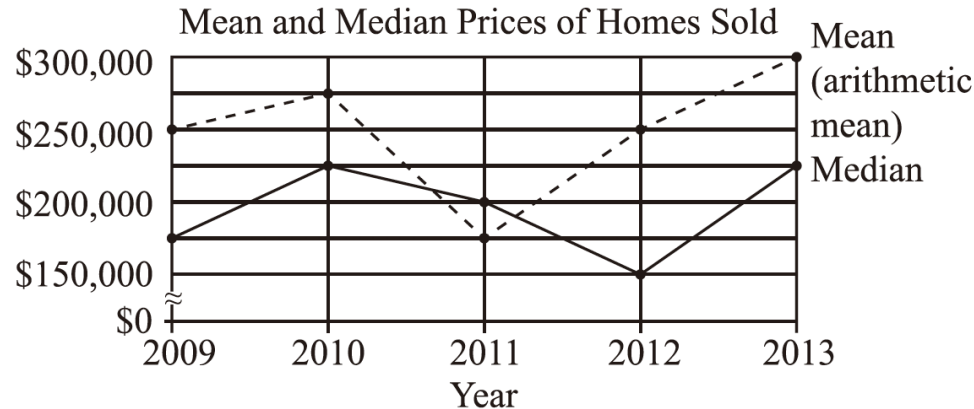
- A. 10%
- B. 15%
- C. 25%
- D. 33%
- E. 50



13. Based on the information given, which of the following statements about the sum of the prices of all the homes sold in a given year must be true? Indicate all such statements.

Number of Homes Sold	
Year	Number
2009	503
2010	351
2011	390
2012	410
2013	290

HOMES SOLD IN COUNTY T, 2009-2013

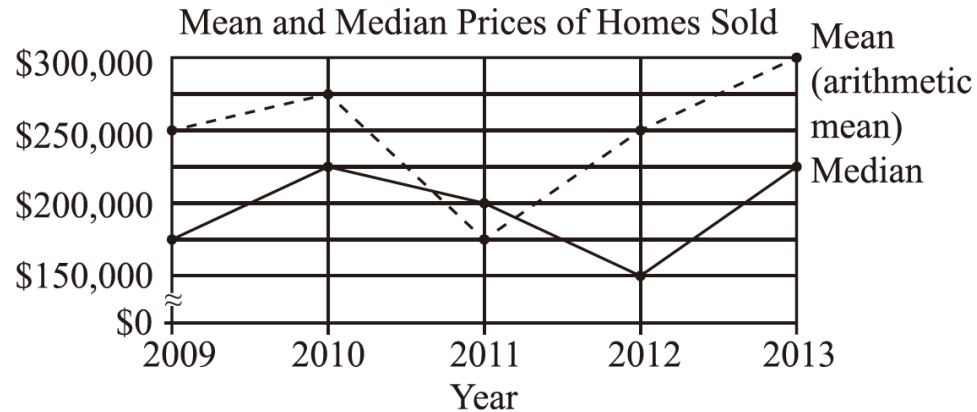


- A. The sum of the prices for 2010 was greater than the sum for 2009.
- B. The sum of the prices for 2010 was greater than the sum for 2011.
- C. The sum of the prices for 2009 was greater than the sum for 2011

14. County T collected a tax equal to 3 percent of the price of each home sold in the county in 2009. Approximately how much did County T collect in taxes from all homes sold in 2009?

HOMES SOLD IN COUNTY T, 2009-2013

Number of Homes Sold	
Year	Number
2009	503
2010	351
2011	390
2012	410
2013	290



- A. \$38,000
- B. \$260,000
- C. \$380,000
- D. \$2,600,000
- E. \$3,800,000

Thanks

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