



SAT Problem of the Week- Math (Calculator Permitted)

For distribution Tuesday, March 6. Due on or before Friday, March 9.

Name: _____ OSIS #: _____ Official Class: _____

Refer to the following information for questions 1 and 2.

A survey was conducted among a randomly chosen sample of U.S. citizens about U.S. voter participation in the November 2012 presidential election. The table below displays a summary of the survey results.

Reported Voting by Age (in thousands)				
	Voted	Did Not Vote	No Response	Total
18- to 34-year-olds	30,329	23,211	9,468	63,008
35- to 54-year-olds	47,085	17,721	9,476	74,282
55- to 74-year-olds	43,075	10,092	6,831	59,998
People 75 years old and over	12,459	3,508	1,827	17,794
Total	132,948	54,532	27,602	215,082

1. According to the table, for which age group did the greatest percentage of people report that they had voted?

Your choice: _____

Show your work here:

2. Of the 18- to 34-year-olds who reported voting, 500 people were selected at random to do a follow-up survey where they were asked which candidate they voted for. There were 287 people in this follow-up survey sample who said they voted for Candidate A, and the other 213 people voted for someone else. Using the data from both the follow-up survey and the initial survey, which of the following is most likely to be an accurate statement?

Select an Answer: _____

- A. About 123 million people 18 to 34 years old would report voting for Candidate A in the November 2012 presidential election.
- B. About 76 million people 18 to 34 years old would report voting for Candidate A in the November 2012 presidential election.
- C. About 36 million people 18 to 34 years old would report voting for Candidate A in the November 2012 presidential election.
- D. About 17 million people 18 to 34 years old would report voting for Candidate A in the November 2012 presidential election.

Show your work here or on the back:

- Submit your answer in the "SAT/ PSAT Be Ready!" Raffle Box located in the Main Office by Friday, March 9.
- Correct submissions qualify for weekly raffle drawing with prizes for the winners.
- Look out for upcoming "SAT PSAT Be Ready!" Raffle Questions distributed on March 16 and March 20.

Remember- March 21 is SAT/PSAT Day. All 11th grade students will take the SAT and all 10th grade students will take the PSAT in school on this day.

SAT Problem of the Week

- Submit your answer in the “SAT/ PSAT Be Ready!” Raffle Box located in the Main Office by Friday.
- Correct submissions qualify for weekly raffle drawing with prizes for the winners.
- Look out for upcoming “SAT PSAT Be Ready!” Raffle Questions distributed on March 13, 16 and 20.

Remember- March 21 is SAT/PSAT Day. All 11th grade students will take the SAT and all 10th grade students will take the PSAT in school on this day.