

Name: _____

Margin of Error Practice

Find the sample size required to achieve the given margin of error. Round your answer to the nearest whole number.

1. $\pm 3\%$

2. $\pm 0.4\%$

3. $\pm 1.6\%$

4. $\pm 5.2\%$

5. $\pm 0.82\%$

6. $\pm 0.04\%$

7. $\pm 7.2\%$

8. $\pm 1.5\%$

Find the margin of error for a survey that has the given sample size. Round your answer to the nearest tenth of a percent.

9. 475

10. 2400

11. 950

12. 7500

13. 1200

14. 6000

15. 20,000

16. 825

17. In a survey of 750 people, 14% said they watch television more than 12 hours per week.

a) What is the margin of error for this survey?

b) Give an interval that is likely to contain the true proportion of all people who watch television more than 12 hours per week.