

Name \_\_\_\_\_

Date \_\_\_\_\_

### Estimating the Mean of Sample Surveys - Matching Worksheet

Match the word problems to their answers. Write the letter of the answer that matches the problem.

The data is binomial and you are taking a sample proportion.

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|-------|--|----------|
| _____ | 1. $ME = 2.5$ , $z = 1.96$ for 95% confidence interval<br>$\hat{p} = 0.7$ Find $n$   | a. 2,304 |
| _____ | 2. $ME = 1.5$ , $z = 1.65$ for 90% confidence interval<br>$\hat{p} = 0.4$ Find $n$   | b. 1,290 |
| _____ | 3. $ME = 2.15$ , $z = 2.58$ for 99% confidence interval<br>$\hat{p} = 0.2$ Find $n$  | c. 5,429 |
| _____ | 4. $ME = 1.19$ , $z = 1.96$ for 95% confidence interval<br>$\hat{p} = 0.2$ Find $n$  | d. 2,886 |
| _____ | 5. $ME = 1.67$ , $z = 1.96$ for 95% confidence interval<br>$\hat{p} = 0.5$ Find $n$  | e. 1,791 |
| _____ | 6. $ME = 5$ , $z = 2.33$ for 98% confidence interval<br>$\hat{p} = 0.5$ Find $n$     | f. 4,340 |
| _____ | 7. $ME = 1.87$ , $z = 2.58$ for 99% confidence interval<br>$\hat{p} = 0.3$ Find $n$  | g. 3,984 |
| _____ | 8. $ME = 2.35$ , $z = 1.96$ for 95% confidence interval<br>$\hat{p} = 0.58$ Find $n$ | h. 3,444 |
| _____ | 9. $ME = 1.94$ , $z = 1.65$ for 90% confidence interval<br>$\hat{p} = 0.47$ Find $n$ | i. 1,694 |

