

MATC9 Ch04.2 Key Concepts 3 Random Sampling Worked Example

Example: Gene belongs to a riding club that meets once a month. Three members are to be selected at random to attend a national rider convention. How can they be chosen?

Solution: There are many ways of doing this. One way is to give each member a numbered ticket when entering the meeting. The same numbers are placed in a hat. Later, three numbers are drawn at random from the hat.

Practice:

1. Lena needs to survey ten people living in her town of population 5200 for a school project. How can she randomly select the people she needs?

2. Andreas needs to call twenty people in the same 555 telephone exchange for a political survey. How can he select the phone numbers at random?

Answers:

Answers will vary. Lena can use the city directory, and randomly select ten pages and page locations. Andreas can make a spinner to randomly select the last four digits for each phone number.