

Algebra/Data Analysis Toolkit: Indicator 3.1.1

Student Handout: Algebra/Data Analysis: Indicator 3.1.1

Goal 3.0 Data Analysis And Probability

Expectation 3.1 The student will collect, organize, analyze, and present data.

Indicator 3.1.1 The student will design and/or conduct an investigation that uses statistical methods to analyze data and communicate results.

Assessment Limits:

The student will design investigations stating how data will be collected and justify the method.

Types of investigations may include: simple random sampling, representative sampling, and probability simulations.

Probability simulations may include the use of spinners, number cubes, or random number generators.

In simple random sampling each member of the population is equally likely to be chosen and the members of the sample are chosen independently of each other. Sample size will be given for these investigations.

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Algebra/Data Analysis Indicator 3.1.1

Alexis advertised that 25 percent of the cars that she sold were red. Which of these could not be used to simulate the number of red cars that Alexis sold?

- A. Toss a fair coin once.
- B. Spin a spinner with 4 equally-sized sections.
- C. Draw a card from a deck of cards numbered 1 through 24.
- D. Use a random number generator to generate the digits 1 through 8.

Correct Answer

- A. Toss a fair coin once.

Item

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