Lesson 6.1 Practice: Randomness and Simulation

School Launch · Statistics · Unit 6: Probability · Worksheet A

Calculator / tables

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. In 50 simulated trials an event happened 30 times. Estimate its probability (fraction and percent to the nearest tenth). Would more trials change the estimate's reliability? EASY

2. In 26 simulated trials an event happened 6 times. Estimate its probability (fraction and percent to the nearest tenth). Would more trials change the estimate's reliability? EASY

3. In 41 simulated trials an event happened 26 times. Estimate its probability (fraction and percent to the nearest tenth). Would more trials change the estimate's reliability? EASY

4. In 40 simulated trials an event happened 19 times. Estimate its probability (fraction and percent to the nearest tenth). Would more trials change the estimate's reliability? MEDIUM

5. In 45 simulated trials an event happened 17 times. Estimate its probability (fraction and percent to the nearest tenth). Would more trials change the estimate's reliability? MEDIUM

6. In 36 simulated trials an event happened 17 times. Estimate its probability (fraction and percent to the nearest tenth). Would more trials change the estimate's reliability? MEDIUM

7. In 37 simulated trials an event happened 33 times. Estimate its probability (fraction and percent to the nearest tenth). Would more trials change the estimate's reliability? MEDIUM

8. In 29 simulated trials an event happened 3 times. Estimate its probability (fraction and percent to the nearest tenth). Would more trials change the estimate's reliability? HARD

9. In 27 simulated trials an event happened 8 times. Estimate its probability (fraction and percent to the nearest tenth). Would more trials change the estimate's reliability? HARD

10. In 28 simulated trials an event happened 12 times. Estimate its probability (fraction and percent to the nearest tenth). Would more trials change the estimate's reliability? HARD