

Math 8 LG 15

Probability



INTRODUCTION:

People often want to know how to determine the likelihood of events....check out Chapter 11 Opener page 406 for more information....



LEARNING GUIDE EXPECTATIONS:

On the completion of this learning guide you will be able to:

- 1) determine the sample space of a probability experiment with two independent events.
- 2) determine the outcomes of two or more independent events.
- 3) solve probability problems.



EVALUATION:

You are ready to progress to the next learning guide when you can demonstrate your understanding of the above expectations. Please refer to your Mathematics 8 Marks Record Sheet to determine the assessment.



RESOURCES NEEDED:



Math Links 8 Text



THSS Math 8 Learning Guides and Math 8 Journal Entries Package

LEARNING ACTIVITIES:



Expectation #1: Determine the sample space of a probability experiment with two independent events.



1. [Watch and take notes on instructional video on Sample Space and Probability.](#)



2. In the Math Links 8 text, complete the Explore the Math activity on Chapter 11 Section 11.1 pages 410-411.
3. In the Math Links 8 text, work through Example 1 on Chapter 11 Section 11.1 pages 411-412. Now complete #3, 4 on Chapter 11 Section 11.1 page 416.
4. In the Math Links 8 text, work through Example 2 on Chapter 11 Section 11.1 pages 413-414. Now complete #5, 6 on Chapter 11 Section 11.1 page 417.

5. In the Math Links 8 text, complete #10, 11, 13 on Chapter 11 Section 11.1 pages 420-421.



Expectation #2: Determine the outcomes of two or more independent events.



1. [Watch and take notes on instructional video on Number of Outcomes of Independent Events.](#)



2. In the Math Links 8 text, work through Example 1 on Chapter 11 Section 11.2 pages 420-421. Now complete #3, 4 on Chapter 11 Section 11.2 pages 423-424.

3. In the Math Links 8 text, work through Example 2 on Chapter 11 Section 11.2 pages 421-422. Now complete #5, 6 on Chapter 11 Section 11.2 page 424.



4. Read Key Ideas on Chapter 11 Section 11.1 page 415 and the Key Ideas on Section 11.2 page 422-423. In your math journal, complete the journal entry for LG 15 Expectations 1-2.



5. In the Math Links 8 text, complete #7, 9, 12, 13, 15 on Chapter 11 Section 11.1 pages 423-425.



Expectation #3: Solve probability problems.



1. [Watch and take notes on instructional video on Calculating the Probability of Independent Events.](#)



2. In the Math Links 8 text, work through Example 1 on Chapter 11 Section 11.3 pages 427-429. Now complete #4, 5 on Chapter 11 Section 11.3 page 432.

3. In the Math Links 8 text, work through Example 2 on Chapter 11 Section 11.3 page 429. Now complete #6, 7 on Chapter 11 Section 11.3 page 433.



4. Read Key Ideas on Chapter 11 Section 11.3 page 431. In your math journal, complete the journal entry for LG 15 Expectation 3.



5. In the Math Links 8 text, complete #10, 11, 15 on Chapter 11 Section 11.1 pages 433-435.

REVIEW AND CHALLENGE



1. In the Math Links 8 text, complete Chapter 11 Review pages 436-437 #1,2,6,7,9,10,12.