Name: Date: Date:
Probability Mini-Lesson #2
Today's Learning Goal: At the end of today's lesson, you should be able to identify whether an event is independent or dependent and find the probability of an independent and dependent event.
Two events are independent events if
Two events are dependent events if
Examples: Tell whether the events are independent or dependent. Explain your answer.
A. You flip heads on one coin and tails on another coin.
B. Your teacher chooses one student to lead a group, and then chooses another student to lead another group.
C. You choose a blue marble from a bag and set it aside. Then you choose a green marble from the bag.
D. You roll a 5 on a number cube and spin blue on a spinner.
Probability of Independent Events:

Examples: Find the probability of the independent events:

A. You flip 2 quarters. What is the probability that you flip two heads?

B. You flip a coin and roll a number cube. What is the probability that you flip tails and roll a number less than 5?

Probability of Dependent Events:

Examples: Find the probability of the dependent events:

A. You randomly choose a flower from the vase to take home. Your friend randomly chooses another flower from the vase to take home. What is the probability that you choose a purple flower and your friend chooses a yellow flower?

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- B. The students in Classroom 101 consist of 13 girls and 7 boys. The students in Classroom 103 consist of 8 girls and 12 boys. You randomly choose one student from each classroom. Find the probability of the events.
 - Choosing a boy from both classrooms
 - Choosing a girl from Classroom 101 and a boy from Classroom 103
 - Choosing a boy from Classroom 101 and a girl from Classroom 103

Progress Monitoring: How do you feel about your level of understanding of solving problems involving probability of independent and dependent events? (Rate yourself from 0 (don't understand at all) to 10 (doing awesome))