C2 Probability & Odds

- Calculate the odds for or against an event

- Switch between probability and odds for an event

- Explain the difference between probability and odds

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Warm Up - Calculate Probability

For the grand opening of her coffee shop, Maria is having a promotion. Each customer who makes a purchase gets a scratch-and-win card. Each card has a 50% chance of being a winner. Suppose a customer has three scratch-and-win cards.

a) What is the probability of all three cards being winners? (MathAtWork12 pg. 26)

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Odds Investigation

Odds are another way to measure the likelihood of something happening.

Explore odds by completing the "Odds Investigation handout"

Odds: a ratio that compares the # of possible successful outcomes to the # of possible unsuccessful outcomes.

(Odds = # successful outcomes : # of unsuccessful outcomes)

Example: When rolling a six-sided die, the odds of rolling a 4 are 1:5 .

1 successful outcome : 5 unsuccessful outcomes

Review the Odds Investigation Handout

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Example

A standard deck has 52 cards. What are the odds of choosing

a) the 7 of spades?

b) a queen?

c) a club?

d) a red card?

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Practice (Board Work)

You have one six-sided die. What are the odds of rolling

a) a 2?

b) a 5 or a 6?

c) an odd number?

d) any number but a 3?

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Practice (Independent)

Text pg. 27-29:

Try It - #3-4;
Apply It - #5;
Work With It - #1, 3-4
Discuss It - #6-8

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