Daily Agenda

Learning Targets:

I can calculate the probability of an event.

I can compare the experimental probability and theoretical probability of an event occurring.

I can determine if an event is dependent or independent.

I can determine if an event is mutually exclusive.

I can calculate the probability of at least 1.

I can find conditional probability using contingency tables. tree diagrams, or Venn diagrams.

I can draw a tree diagram, Venn diagram, or two-way table to model a situation.

Homework

Assessments

Unit 10A Review WS

Unit 10 A Test - 5/5

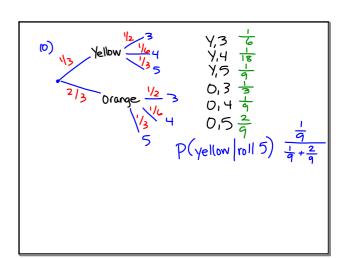
May 4-11:04 AM

Nov 15-8:24 PM

a) Prob. sample recycled woste is paper P(paper | recycled) $\frac{45.2}{79.4} = 56.9\%$ b) P(plastic | recycled) = $\frac{2.1}{79.4} = 2.6\%$

c)
$$P(\text{recycled} | g|ass) = \frac{3.2}{13.6} = 23.5\%$$

May 4-11:13 AM



May 4-11:17 AM

Example In a class:
$$P(\text{male}) = 0.30$$

 $P(\text{brown hair}) = 0.50$
 $P(\text{male with brown hair}) = 0.20$

Draw a Venn Diagram and find each probability if one student is picked at random.

a. P(female) = .7

b. $P(\text{male} \mid \text{brown hair}) = \frac{.2}{.5} = .4$

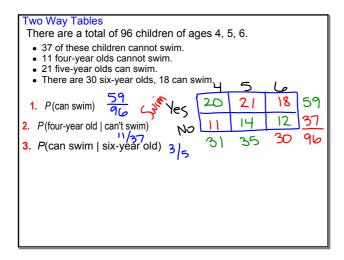
c. $P(\text{female} \mid \text{doesn't have brown hair}) = -8$

Example

Freezy's Ice Cream Stand is testing out two new flavors, Birthday Cake and Dandy Cotton Candy. A poll conducted by Freezy's showed that 32 customers liked Birthday Cake, 58 customers liked Dandy Cotton Candy, 12 liked both flavors, and 22 liked neither

What is the probability that a customer selected at random would like Dandy Cotton Candy?

What is the probability that a customer selected at random would like either Birthday Cake or Dandy Cotton Candy?



Apr 7-4:31 PM