

D

There are 8 slices of pepperoni pizza, 4 slices of cheese pizza,  
and 3 slices of Supreme pizza left on the buffet.

Zoe chooses one slice of pizza and Carl then chooses a slice of pizza.

What is the probability that Zoe chose a slice of cheese pizza and  
then Carl chose a slice of cheese pizza?

$$\frac{17}{39}$$

# H

A die is rolled 2 times. Find the probability of getting two 6's.

$$\frac{2}{35}$$

# B

Suppose you roll a standard die and spin a spinner that is divided into 10 equal sectors, numbered 1 – 10.

What is the probability of getting a 4 on both the die and the spinner?

$$\frac{1}{36}$$

# C

A bag contains 2 red tokens, 3 green tokens, and 5 blue tokens.

A token is selected at random and its color is noted.

Then it is replaced and another token is selected and its color is noted.

Find the probability of selecting a red token and then a blue token.

$$\frac{1}{60}$$

# F

$$P(A) = \frac{1}{2} \text{ and } P(B) = \frac{2}{5}.$$

If events **A** and **B** are independent, what is  $P(A \cap B)$ ?

0.1

# L

Use the table to determine  
 $P(\text{Female} \cap \text{Master's})$

	Bachelor's	Master's	Professional	Doctorate	Total
Female	542		26	18	714
Male	438		38		
Total		293			1375

0.2

# A

A total of 540 customers, who frequented an ice cream shop, responded to a survey asking if they preferred chocolate or vanilla ice cream and if they preferred a bowl or a cone.

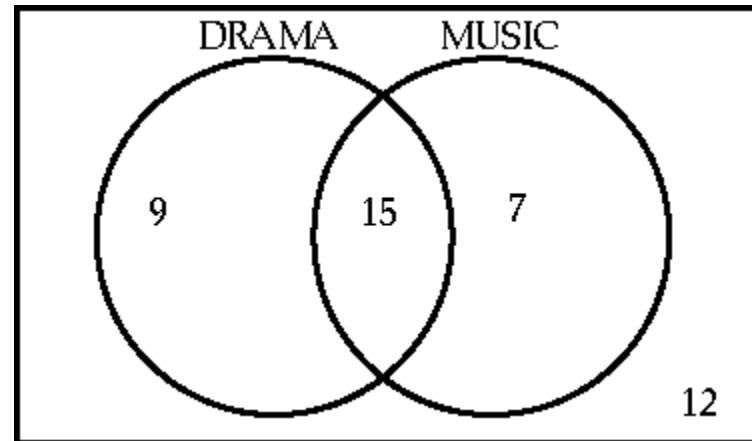
- 308 of the customers preferred chocolate ice cream
- 263 of the customers preferred a bowl
- 152 of the customers preferred a cone and vanilla ice cream

What is the probability that a customer preferred a bowl and vanilla ice cream?

0.093

# E

Use the Venn Diagram to determine  
 $P(\text{Drama} \cap \text{Music})$



$$\frac{4}{27}$$



# G

An automobile company has two factories assembling its luxury cars. The company is interested in whether consumers rate cars produced at one factory more highly than cars produced at the other factory.

- Factory A assembles 60% of the cars.
- A recent survey indicated that 70% of the cars made by this company were highly rated.
- This same survey indicated that 5% of all cars made by this company were made at Factory B and were not highly rated.

What is the probability that a car was made in Factory A and was not highly rated by the consumer?

0.349

# K

Use the table to determine the probability that a student who has chores also has a curfew.

		Curfew		
		Yes	No	Total
Chores	Yes	51	24	75
	No	30	12	42
Total		81	36	117

0.25