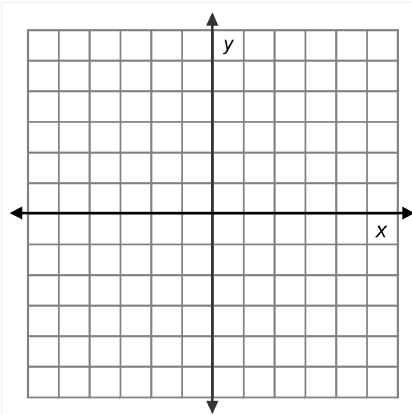


Math 1

1. Graph $y = \frac{3}{5}x - 4$

**Ch 2**

2. Factor the following trinomials:

- a. $x^2 - 6x - 16$
- b. $x^2 + 8x + 15$
- c. $3x^2 + 7x + 2$

Sec 5.1 Sample Spaces and Probability

- List the sample space for:
 - Drawing a tile from a bag containing three tiles: one "A", one "B", and one "C" and then roll one 6-sided die.
 - Toss a coin and then draw one marble from a bag that contains 1 red marble and 2 blue marbles.
- Using problem 1a, find the probability of selecting a "B" and then rolling an even number.
- You draw one card from a standard deck of playing cards. Find the probability:
 - Your card is a heart
 - Your card is red
 - Your card is *not* a diamond
 - Your card is a face card (Jacks, Queens, and Kings)
- You roll two six-sided dice. Find the probability:
 - The sum is 5
 - The sum is more than 3
 - The sum is not 12
 - The sum is at most 5

Sec 5.2 Independent and Dependent Events

- You are randomly selecting two books from a box one at a time. There are five non-fiction books, 4 reference books, and 11 fiction books. Find the probability that your first book is fiction and the second is fiction when:
 - You replace the first book
 - You do not replace the first book.

2. You randomly draw cards from a standard deck of playing cards. Find the probability that your first card is a heart and the second is a heart when:

- You replace the first card
- You do not replace the first card.

Sec 5.3 Two-way tables and Probability

1. Answer the following questions about the two-way table.

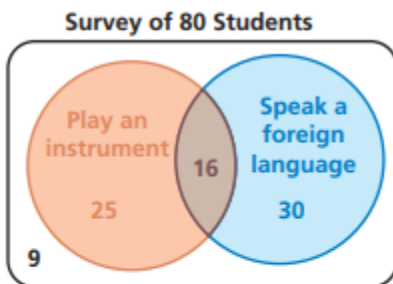
		Attendance		Total
		Attending	Not Attending	
Class	Junior	42	64	106
	Senior	77	37	114
Total		119	101	220

- What is the probability that a junior did not attend the dance?
- What is the probability that a student that attends the dance is a senior?
- What is the probability that a student that did not attend is a junior?

2. Complete the two - way table.

		Preparation		Total
		Studied	Did Not Study	
Grade	Pass		6	
	Fail			10
Total		38		50

3. Read the following, then complete the table and answer the questions.



The Venn diagram shows the results of a survey in which 80 students were asked whether they play a musical instrument and whether they speak a foreign language. Use the Venn diagram to complete the two-way table. Then use the two-way table to answer each question.

	Play an Instrument	Do Not Play an Instrument	Total
Speak a Foreign Language			
Do Not Speak a Foreign Language			
Total			

- What is the probability that a student speaks a foreign language and plays an instrument?
- What is the probability that a student that does not speak a foreign language does not play an instrument?
- What is the probability that a student surveyed speaks a foreign language?
- What is the probability that a student surveyed does not play an instrument?