

Ms. Frost

CT

RSCS

Name: \_\_\_\_\_

Class: \_\_\_\_\_

Date: \_\_\_\_\_

Rewrite each of the following equations in  $y = mx + b$  form. Show each step!

1)  $x + y = -15$

2)  $2y + 8x = 1$

3)  $-2x + y = 1$

4)  $3y - 2x = 9$

5)  $2y = -1x - 8$

6)  $y - 4 = -3(x - 3)$

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Name: \_\_\_\_\_  
Ms. Napolitano

Date: \_\_\_\_\_  
Activity: 6.2

Topic: Equations  
Lesson 19

**Homework (Day 1)**

MIT/UCLA

**Solve:**

a)  $X + 4 = 14$

b)  $X - 4 = 15$

c)  $X + 6.57 = 10.8$

d)  $X - 11.04 = 24.214$

**Bonus: Solve for x:**

$2x + 2 = 10$



Name: \_\_\_\_\_  
Ms. Napolitano

Date: \_\_\_\_\_  
Activity #: \_\_\_\_\_

Topic: Inequality

# Homework Day 1

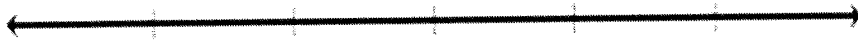
UVA

Directions: Create an inequality that represents each situation described and graph the solution.

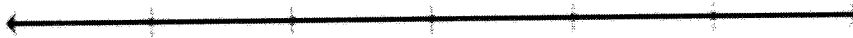


**You must be 18 or older to vote!**

**Inequality:** \_\_\_\_\_

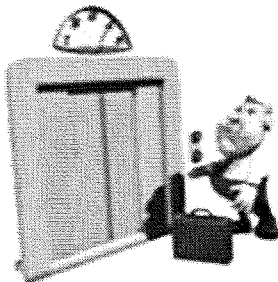


**Inequality:** \_\_\_\_\_



**You Must Be Taller Than 160 Inches**

what!!!!



**Most elevators can hold a max weight of 2000 pounds!**

**Inequality:** \_\_\_\_\_





CAM

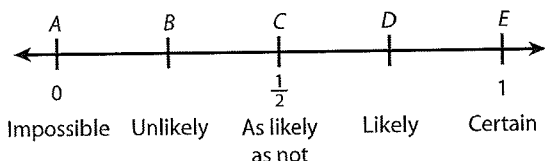
Understanding Probability

Study the example showing the likelihood of certain events. Then solve problems 1–6.

**Example**

Sarah's playlist has 4 jazz songs, 10 hip-hop songs, 20 country songs, 6 blues songs, and 0 classical songs. She plays the songs at random on her device.

Find the probability that the next song will be jazz, hip-hop, country, blues, or classical. Then choose the point on the number line that best describes the probability.



You can use the fact that there are 40 songs on Sarah's playlist and the given numbers of songs to find each probability. For example, there are 4 jazz songs and 40 songs, so the probability that a jazz song will play next is  $\frac{1}{10}$ , which makes it unlikely that a jazz song plays next.

Style of Music	Probability	Point
Jazz	unlikely	B
Hip-hop	unlikely	B
Country	as likely as not	C
Blues	unlikely	B
Classical	impossible	A

1 Why is it as likely as not that a country song will play next?

\_\_\_\_\_

2 Why is it impossible that a classical song will play next?

\_\_\_\_\_

3 Why is it unlikely that a hip-hop song will play next?

\_\_\_\_\_

\_\_\_\_\_

**Vocabulary**

**probability** the chance of an outcome or event occurring.

**outcome** one of the possible results in a situation or experiment.



**Solve.**

**4** A baseball coach draws names to decide who will be the first player at bat. There are 5 girls and 10 boys on the team. Describe and explain the probability of each outcome.

**a.** The first batter is a girl.

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**b.** The first batter is a boy.

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**5** A gym teacher has a box of tennis balls; 3 balls are green, 2 are red, and 4 are yellow. If you choose a ball without looking, which outcome is more likely, A or B? Complete the table.

Outcome A	Outcome B	More Likely (A or B)	Explanation
yellow ball	red ball		
green or red ball	yellow or red ball		
red or blue ball	purple ball		

**6** Each student in your class tosses a coin. The result of each toss is either heads or tails.

**a.** Describe the probability that you get heads when you toss the coin. Explain.

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**b.** What part of the class would you expect to get heads? Explain.

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**c.** What is the probability that everyone gets heads?

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