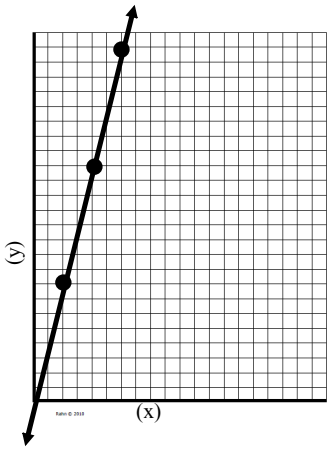
Weekly 16 CC8 Probability Name _____

MONDAY

1. $\dfrac{\frac{6}{7}}{\frac{9}{11}}$ = _____

2. Use the graph to the right.
   Algebraic Equation _____
   Unit Rate/C of P/ _____



3. Graph $y = \frac{1}{5}x + 2$ on the graph to the right.

4. There are 9 pennies, 4 nickels, 14 dimes and 1 quarter in a bag. Find the following probabilities (assuming all coins are returned after each draw).

	Simplified Fraction	Decimal	Percent
P(dime)	_____	_____	_____
P(either a penny or a quarter)	_____	_____	_____
P (silver dollar)	_____	_____	_____
P(penny and then a nickel)	_____	_____	_____

5. When shopping for a motorcycle I found that I could order it in green, blue, or red. I could also choose the premium wheels or the standard wheels. The dealership also offers 6 options of detailed seats. How many different motorcycle choices are offered? _____

6. Three out of every five dentists prefer Crest toothpaste. Make an organized list to determine the probability that you will visit at least 4 dentists before you find one that prefers Crest. _____

TUESDAY

1. _____ $4(h + 12) = 10h + 5 - 6h$

2. _____ It takes 3/4 of a cup of butter to make 22 biscuits. How many biscuits will 3 3/4 cups of butter make?

3. _____ $9 + \frac{c}{5} = \frac{3}{10}$

4. Find the following probabilities.

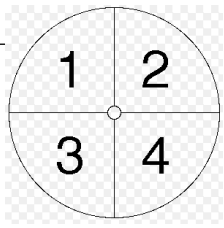
	Simplified Fraction	Decimal	Percent
P(red 7 and then a black 7)	_____	_____	_____
P(club and then either a heart or spade)	_____	_____	_____
P (rolling a 5 and then flipping a heads)	_____	_____	_____
P(being randomly selected out of a class of 12)	_____	_____	_____

5. How many ways could a President, Vice-President, and Secretary be chosen out of a class of 14 students if no person can hold more than one office? _____

6. What is the probability (as a percent) I will have to spin the spinner at least 3 times before I get a 2? _____

7. What is the probability (as a fraction) I will spin the spinner 4 times without getting a 1? _____

8. What is the probability (as a decimal) that I spin a 2 five times in a row? _____



9. Give an example of each:
   Stratified Random Sample _____
   Simple Random Sample _____
   Systematic Random Sample _____

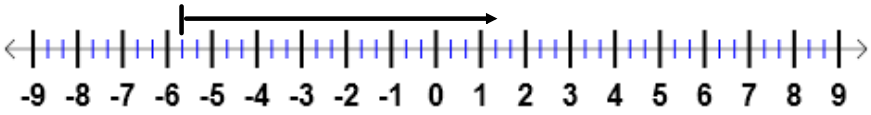
WEDNESDAY

No Calculator 2.1 $\overline{-28.56}$

1. _____ $\frac{3}{5+v} = \frac{8}{19}$ 2. Show your work

Write the problem (and answer) for the problem demonstrated on the number line.

3. _____



4. 216, 185, 177, 230, 235, 185, 191, 154, 244

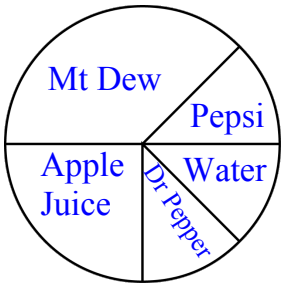
Mean _____ Median _____ Mode _____ Spread _____

The 5 points for the Box and Whiskers _____ IQR _____ M.A.D. _____

5. Find the following probabilities.

P(Mt Dew) _____ P(either Dr Pepper or Water) _____

P(Apple Juice) _____ P (apple juice and then apple juice again) _____



6. If you spun the spinner 864 times how many times would you expect to spin: Apple Juice _____ Pepsi _____

7. Explain why the probability of Mt Dew is greater than the probability of Pepsi.

8. I have 8 pairs of shoes, 5 pairs of jeans, 14 shirts, and 3 hats. How many different outfits could I make? _____

9. Fill in the blanks. _____ Samples lead to _____ Samples which lead to valid _____

10. If you flipped a coin 4,000 times, how many heads would you expect to flip? _____

Would you expect to flip EXACTLY that many? YES NO

THURSDAY

1. _____ $6 - 9k = 4 + 20k$

2. _____ How many digits would be to the right of the decimal in the product of 4.08 and 2.7?

3. _____ Solve and graph $\frac{m - 10}{3} \geq 2$

4. Plot/Graph the following.

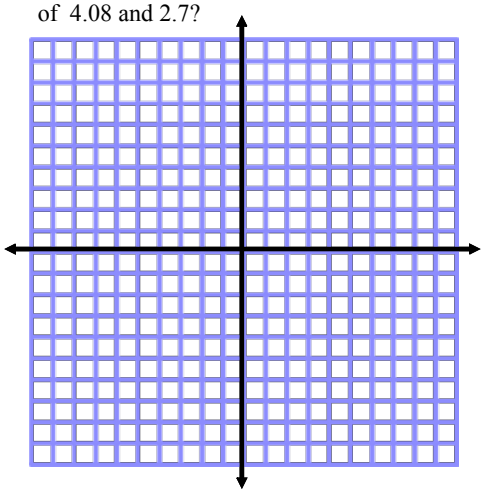
A. (-2, 9)

B. (6, 0)

C. $y = \frac{1}{6}x$

D. $y = 2x - 8$

E. $y = 3x$



5. The letters of **MR DELLENBACH** are cut up and put into a hat. Find the following probabilities.

Answer as Fractions

P(draw a vowel) _____ P(consonant) _____

P(draw either a **M** or a **N** or a **B**) _____ P(two vowels in a row) _____

P(draw the letters **CALL** in that order) _____

What is the probability I would draw 5 times without drawing a vowel? _____