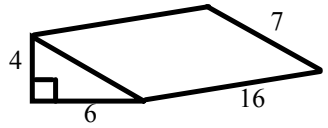
Weekly 17 CC8 Probability Name _____

MONDAY

1. $5\frac{1}{3} + \frac{9}{10} =$ _____

2. Eight hamburgers cost $14. What is the constant of proportionality? _____
   Write an equation that relates the cost (y) to the number of hamburgers (x). _____

3. Surface area = _____
   Volume = _____



4. **7, 20, 9, 11, 9, 25, 28, 36**

Mean _____ Median _____ Mode _____ Spread _____ IQR _____ MAD _____

5. How many different ways could a test be answered that has two True/False questions, three Multiple Choice (A-D) questions, and two Multiple Choice (A-H) questions? _____

6. Mr. Dellenbach is a 90% free throw shooter. Find the following probabilities.
   P(makes 3 in a row) as a fraction _____
   P(misses 2 in a row) as a percent _____
   P(makes the first then misses the second) as a decimal _____

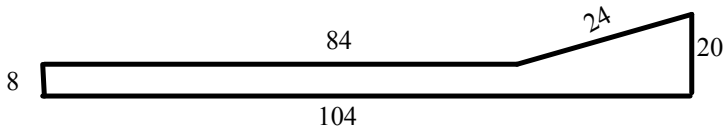
7. You roll two regular 6-sided dice and multiply the two numbers. Find the following probabilities.
   P(the product has a 3 in it) _____
   P(the product is a one-digit number) _____
   P(the product is greater than 18) _____

TUESDAY

1. Chris has $140 in the bank and started a job where he earns $11 per hour. If he is able to save all of his money how many hours will he need to work to afford a $1658 cruise to the Bahamas? _____
   Write an equation that would help you solve the problem. _____

2. Perimeter _____

   Area = _____



3. A long time ago in a land far, far away, lived a king who loved games. If a prisoner were sentenced to be executed, but there was some hint that the prisoner might be innocent, then the king played the following game with the prisoner. The prisoner is given three empty boxes, 100 red stones and 100 blue stones. The prisoner places the stones in the boxes in any way he chooses. The prisoner is blindfolded and the boxes rearranged. The prisoner draws a stone out of one of the boxes. If the stone is red he is set free. If the stone is blue, he is executed. Describe the way to arrange the stones that will give the prisoner the best chance of being set free. Then calculate the probability of freedom. _____

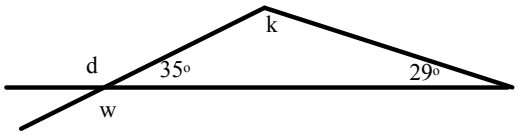
4. How many ways can I order 5 books on a book shelf? _____

5. What does a large M.A.D. tell you about a data set?

6. Make a list of 5 numbers that have a spread of 50, a mean of 70, and a median of 80.
   _____, _____, _____, _____, _____,

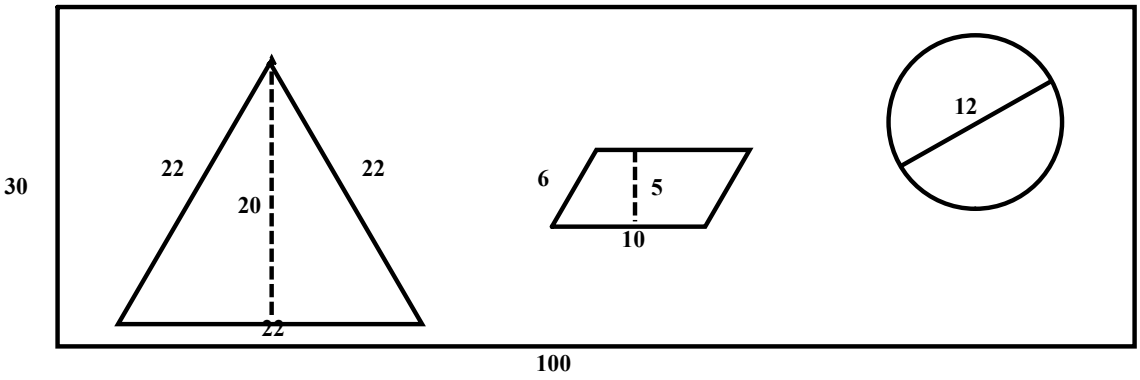
WEDNESDAY

1. measure of angle k = _____
   measure of angle d = _____
   measure of angle w = _____



2. _____ 5p - (8p - 16) = 4(5p + 9)

3. A dart is thrown RANDOMLY at the shown dartboard. Use your geometry skills and understanding of probability to find the following probabilities. Assume all throws hit the dartboard and answer all as percents.



P(triangle) _____ P(dartboard but not a shape) _____

P(circle then parallelogram) _____ P(the parallelogram twice in a row) _____

P(either triangle or circle) _____

THURSDAY

1. _____ $\frac{8 - g}{6} = \frac{25}{4}$

2. _____ Solve and graph $4f - 7 \geq 13$

3. Plot/Graph the following.

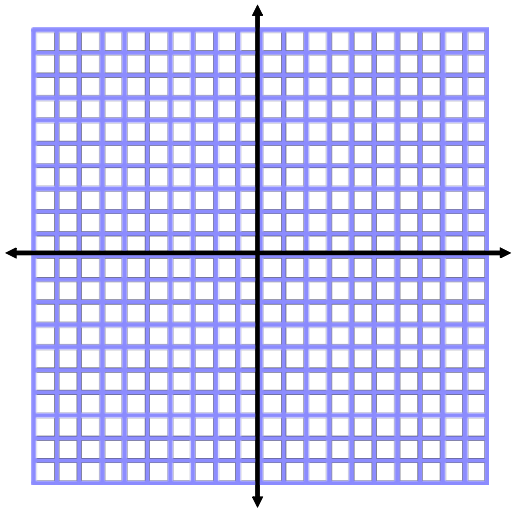
   A. (-8, -2)

   B. (0, 9)

   C. $y = \frac{4}{3}x$

   D. $y = x$

   E. $y = 2x + 5$



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4. The names of the following students were put in a hat and drawn:
   Jim, Karen, Christopher, Heather, Tommy, Josh, and Angie

Find the following probabilities.

P(drawing a girl) _____ P(3 syllable name) _____

P(Heather or Karen) _____ P(a girl then a boy if the name is replaced after the first draw) _____

P(a girl then a boy if the name is NOT replaced after the first draw) _____

P(1 syllable name) _____ P(not Angie) _____

5. What type of random sample was #4 an example of? _____