

You must complete this before retaking the MC again. Remember it is all about LEARNING so take your time and learn how to do these skills. If you need help please ask!

NAME: _____

Corrective Assignment 12.1

A bag contains 3 red marbles, 2 white marbles, 5 maroon marbles and 2 blue marble.

1) $P(\text{red marble}) =$

2) $P(\text{green marble}) =$

3) $P(\text{maroon marble}) =$

4) $P(\text{not a blue marble}) =$

Roll two dice and add up what numbers show.

5) Make a tree diagram to show all possible outcomes.

6) $P(\text{sum of 9}) =$

7) $P(\text{sum of 12}) =$

8) $P(\text{sum more than 9}) =$

9) What sum has the lowest probability? What is it?

A deck of cards has 4 suits (hearts, diamonds, spades and clubs). Each suit has 13 cards (2 - 10, jack, queen, king, ace). Hearts and diamonds are red cards. Clubs and spades are black cards. Face cards are jack, queen and king.

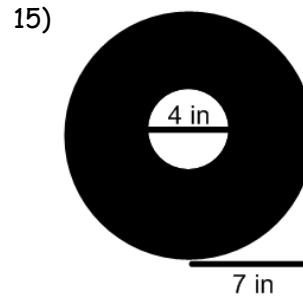
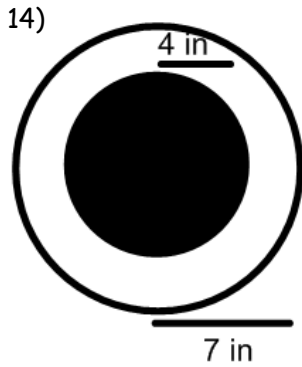
10) $P(\text{picking a spade}) =$

11) $P(\text{numbered card}) =$

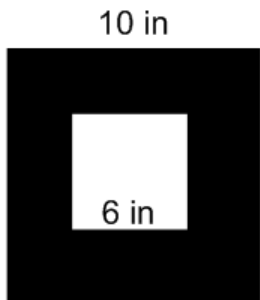
12) $P(\text{black card}) =$

13) $P(\text{even numbered card}) =$

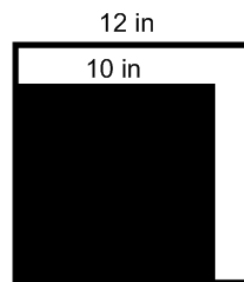
Find the probability of a point being in the shaded region.



16) Two squares



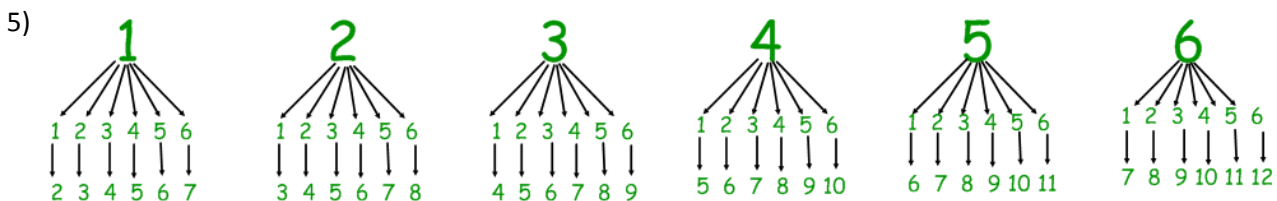
17) Two squares



ANSWERS TO CORRECTIVE ASSIGNMENT:

Make sure you check all your answers and make sure you KNOW how to do all of them. You could simply copy answers but that's not the point. The point is that you have to learn how to do this so please make sure that for any you don't understand you get help BEFORE taking the Mastery Check again.

1) $\frac{1}{4} = .25 = 25\%$ 2) 0 3) $\frac{5}{12} = .4167 = 41.67\%$ 4) $\frac{5}{6} = .8333 = 83.33\%$



6) $\frac{1}{9} = .1111 = 11.11\%$ 7) $\frac{1}{36} = .0278 = 2.78\%$ 8) $\frac{1}{6} = .1667 = 16.67\%$ 9) 2 and 12 have lowest probability which is $\frac{1}{36}$

10) $\frac{1}{4} = .25 = 25\%$ 11) $\frac{9}{13} = .6923 = 69.23\%$ 12) $\frac{1}{2} = 0.5 = 50\%$ 13) $\frac{5}{13} = .3846 = 38.46\%$

14) $\frac{16}{49} = .3265 = 32.65\%$ 15) $\frac{45}{49} = .9184 = 91.84\%$ 16) $\frac{16}{25} = .64 = 64\%$ 17) $\frac{25}{36} = .6944 = 69.44\%$