

Place **ANSWERS ONLY** in the boxes.

(Problems 1 through 13) Round your answers to 2 decimal places if necessary, then match the letter(s) of the correct answer on the right with the question on the left. ANSWER IN **CAPITAL LETTERS!** Answers may be used more than once.

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|--------------------------|--|-----------------------------------|
| <input type="checkbox"/> | 1) If a coin is flipped twice, three things could happen; Two heads are observed, Two tails are observed, or one of each is observed. Are these three equally likely?                | A) Yes<br>B) No<br>C) 0<br>D) .05 |
| <input type="checkbox"/> | 2) If three coins are flipped, what is the probability that all are heads or all are tails?  | E) .10<br>F) .11<br>H) .20        |
| <input type="checkbox"/> | 3) If we randomly pull one marble out of a bag, the probability that it is red is .55. The probability that it is blue is .25. Find the probability that it is neither red nor blue. | K) .25<br>M) .30<br>N) .33        |
| <input type="checkbox"/> | 4) A bag contains three colors of chips; black, white, and gold. If we reach in and randomly pick one chip out, find the probability that it is black or gold.                       | P) .35<br>R) .40<br>T) .45        |
| <input type="checkbox"/> | 5) A bag contains three colors of chips; black, white, and gold. If we reach in and randomly pick one chip out, find the probability that it is black and gold.                      | V) .50<br>W) .55<br>X) .60        |
| <input type="checkbox"/> | 6) A bag contains three colors of chips; black, white, and gold. If we reach in and randomly pick one chip, find the probability that it is black, white, or gold.                   | Z) .65<br>AA) .67                 |
| <input type="checkbox"/> | 7) A bag contains an equal amount of black, white, and gold chips. If we reach in and randomly pick one chip out, find the probability that it is black or gold.                     |                                   |

Use the following for problems 8-10

40 people attended a luncheon. 18 had broccoli, 15 had eggplant, and 9 didn't have either.

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|--------------------------|--|--|
| <input type="checkbox"/> | 8) Find the probability that a person selected at random had broccoli.   | BB) .70<br>CC) .75<br>DD) .80<br>EE) .85<br>FF) .90<br>HH) .95 |
| <input type="checkbox"/> | 9) Find the probability that a person selected at random had broccoli and eggplant.  | KK) 1.00<br>MM) Need More Information                          |
| <input type="checkbox"/> | 10) Find the probability that a person selected at random had broccoli, but not eggplant.  | NN) 1 : 4<br>PP) 4 : 1<br>RR) 4 : 5<br>TT) 5 : 4<br>VV) 4 : 9  |
| <input type="checkbox"/> | 11) The probability that a Martian owns a spaceship is .75. The probability that a Martian owns a death ray is .55. The probability that a Martian owns both is .35. Find the probability that a Martian doesn't own either one. | WW) 9 : 4<br>XX) None of these                                 |
| <input type="checkbox"/> | 12) If the probability of winning a game is $\frac{4}{5}$ , then find the odds of winning.   |  |
| <input type="checkbox"/> | 13) If the odds of winning a game are 2 to 3, then find the probability of <b>LOSING</b> .<br>(Assume no ties)   |  |

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Use the following for problems 14-15

If 2% of homes have no TV, 26% have 1 TV, 45% have 2, 18% have three, and the rest have 4 or more, then....

14) What percentage of homes have at least 2 TV's?

15) What percentage of homes have less than 3 TV's?