|  |  |
| --- | --- |
| NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_ | **Probability** |
| Probability Day 5 | **DATE: Wednesday, May 03, 2017** |

Jack has an average of .280 (which means he gets a hit 28% of the time). If he is up 3 times in a game, find these probabilities: (assume each at bat is independent of the next)

|  |  |
| --- | --- |
| P(all hits): | P(no hits): |
| P ( at least one hit): | P(at least one out): |

Mr Borland gets strikes 81% of the time. (assume each attempt at bowling is independent)

If he bowls three frames, find:

|  |  |
| --- | --- |
| P(turkey (all three strikes): | P(at least one strike): |
| P (no strikes): | P(at least one non strike): |

Ricky is playing basketball. He is fouled making a 3 pointer. He makes 72% of his free throws and gets three shots. (assume no streaks – each shot is independent) Find

|  |  |
| --- | --- |
| P(he makes all 3): | P(he makes at least 1): |
| P (he makes none): | P(he makes at most 2): |

The chance that a driver in Maine wears a seatbelt is 75%. If you look at 4 drivers on the road, find probability:

|  |  |
| --- | --- |
| P(all 4 wearing seatbelt): | P(none are wearing seatbelt): |
| P (at least one is not wearing seatbelt): | Challenge:  P(exactly one is wearing a seatbelt): |

I get dressed in the dark, so I don’t wake up my family. Anyway, I have to pick socks in the dark. I have 4 dark blue socks left and 2 black. If I choose 2 randomly, list the sample space below (maybe use D1 for dark sock #1, D2 for dark sock #2):

Find:

P(matching dark socks):

P(matching black socks):

P (not matching):

Cards:

If you pick a card from a deck, shuffle and put it back and then take a card again:

|  |  |
| --- | --- |
| P(both red)? | P(both face cards)? |

If you pick two from a deck?

|  |  |
| --- | --- |
| P(both red)? | P(both face cards)? |

There are 8 girls and 11 boys in this class:

Im going to give extra credit to 3 and Im going to pick randomly:

Find:

|  |  |
| --- | --- |
| P (all girls) | P (all boys) |
| P (at least one girl and one boy) | Challenge:  P (1 girl, 2 boys) |