

Activity 3-1

Show all your work

Name: _____
Number: _____
Signature: _____
Score: ___/7

Problem 1: In your sock drawer you have four blue, five grey, and three black socks. Half asleep one morning you grab two socks at random and put them on. Draw a **probability tree** of grabbing two socks without replacement from the drawer. Then for each case below, find the probability you end up wearing

a. no grey socks

b. at least one black sock

c. a yellow sock

d. matching socks

Score: /5

Problem 2: The table below shows the distribution of books on a bookcase based on whether they are fiction or non-fiction and hardcover or paperback.

	Hardcover	Paperback	Total
Fiction	13	59	72
Non-fiction	15	8	23
Total	28	67	95

Find the probability of drawing a hardcover book first then a paperback fiction book second when drawing without replacement.

Score: /2