Name:_____

Date:_____ Per:_____

Lesson 5.2.3 Homework

5-49. For each of the following probabilities, write "dependent" if the outcome of the second event depends on the outcome of the first event and "independent" if it does not.

a. P(spinning a 3 on a spinner after having just spun a 2)

b. P(drawing a red 6 from a deck of cards after the 3 of spades was just drawn and not returned to the deck)

c. P(drawing a face card from a deck of cards after a jack was just drawn and replaced and the deck shuffled again)

d. P(selecting a lemon-lime soda if the person before you reaches into a cooler full of lemon-lime sodas, removes one, and drinks it)

5-50. Skye's Ice Cream Shoppe is Mario's favorite place to get ice cream. Unfortunately, because he was late arriving there, his friends had already ordered. He did not know what they ordered for him. They told him that it was either a waffle cone or a sundae and that the ice cream flavor was apricot, chocolate, or blackberry.

a. Make a list of all of the possible ice cream orders.

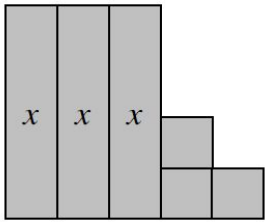
b. What is the probability that Mario will get something with apricot ice cream?

c. What is the probability that he will get a sundae?

d. What is the probability that he will get either something with chocolate or a waffle cone with blackberry?

e. What is the probability that he will get orange sherbet?

5-51. On your paper, sketch the algebra tile shape shown at right. Write expressions for the area and perimeter of the shape. Then calculate the area and perimeter of the shape for each x-value.



a. $x = 9$ cm

b. $x = 0.5$ cm Hint: Draw a diagram. Does your perimeter expression work?

c. $x = 15$ cm

5-52. Elin has made twenty-nine note cards for her friends. She plans to send out a total of forty cards. What percentage of the cards has she finished? Represent your work clearly on your paper.