What Do You Call A Pig That Does Karate?

Write the letter of each answer in the box containing the exercise number.

Find the probability.

- 1. A bowl contains three grapefruits and four oranges. You randomly select a piece of fruit, eat it, and then randomly select another piece of fruit. Find the probability that you select an orange second given that you selected a grapefruit first.
- 2. You have five mystery novels and two science fiction novels. You randomly select two different novels to read. Find the probability that you select a mystery novel to read second given that you randomly selected a science fiction novel to read first.

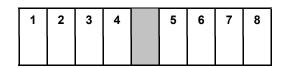
A company surveys cyclists about bicycle designs. The two-way table shows the joint relative frequencies. Find the probability.

		Like	Dislike	No Opinion
Design	Α	0.326	0.023	0.112
	В	0.279	0.102	0.158

- **3.** P(like | Design A)
- **4.** P(no option | Design B)
- **5.** P(Design A | dislike)
- **6.** P(Design B | like)

At a restaurant, 92% of the customers order an entrée, 28% order an entrée and a soup, and 36% order an entrée and a dessert.

- **7.** What is the probability that a customer who orders an entrée also orders a dessert?
- **8.** What is the probability that a customer who orders an entrée also orders a soup?



Answers

- **H.** 0.461
- **P.** about 30%
- **R.** 0.707
- **O.** about 39%
- **O.** about 83%
- **C.** 0.184
- **K.** 0.293
- **P.** about 67%