

Choosing Classes

Marlee is going to register for a college Algebra class. The classes are offered in the mornings (1st, 2nd, 3rd blocks) and afternoons (4th, 5th, 6th blocks).

The following is a list of instructors and the blocks they teach:

- Ms. Hill - 1st, 3rd, 4th, 5th
- Mr. Valley - 2nd, 3rd, 5th, 6th
- Mr. Brooks - 1st, 2nd, 4th, 6th
- Ms. Rivers - 1st, 2nd, 4th, 5th

Create a table that illustrates the data.

Teacher	1 st	2 nd	3 rd	4 th	5 th	6 th
Hill	X		X	X	X	
Valley						
Brooks						
Rivers						

Terra

total outcomes:

Questions

1. What is the probability of getting a 2nd block class?

$$\frac{3}{16}$$

2. After referring to Rate My Professor, she wants to take either Mr. Valley or Ms. Rivers. Which is the better choice: morning or afternoon? Explain.

V. morn: 2

V. After: 2

morning: $\frac{4}{8} = \frac{1}{2}$

R. morn: 2

R. After: 2

afternoon: $\frac{4}{8} = \frac{1}{2}$

3. Ms. Hill's classes are full. How does this affect her chances of getting an afternoon class?

Does NOT affect chances

Afternoon w/ Hill: $\frac{8}{16} = \frac{1}{2}$ Afternoon w/out: $\frac{6}{12} = \frac{1}{2}$

4. Since Ms. Hill's classes are full, Mr. Terra is now teaching Algebra 1st and 6th block.

Find P(Valley, afternoon). $\frac{2}{14} = \frac{1}{7}$

Find P(Brooks, 6th). $\frac{1}{14}$

Find P(Rivers) $\frac{4}{14} = \frac{2}{7}$