

Data Analysis and Probability

For 1–5, use this data.

Mr. Blackwell has a bag with 15 cards. There are triangles on 5 of the cards. Each student takes 5 cards from the bag and then returns the cards to the bag.

Number of Triangles	0	1	2	3	4	5
Number of Students	2	4	5	5	1	0

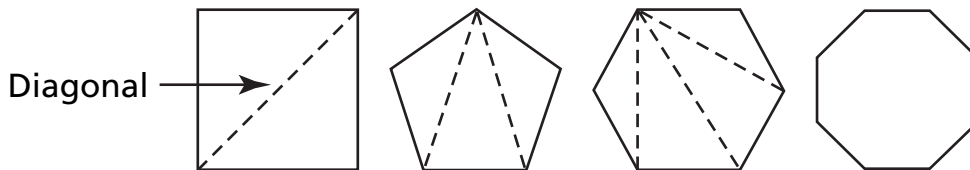
- 1 How many students pick cards from the pile? _____
- 2 How many students pick at least 3 cards with triangles? _____
- 3 How many students pick no more than 3 triangles? _____
- 4 Why is the sum of the answers to Problems 2 and 3 above greater than the answer to Problem 1?

- 5 Why is 5 the greatest number of triangles included in the table?

Problem Solving

Use a strategy and solve.

- 6 A diagonal of a polygon cuts the figure into smaller polygons. Diagonals from the same vertex can make triangles. How many triangles will be made by drawing all the diagonals from one vertex in an octagon?



- 7 The house numbers along Jefferson Street are 1 through 120. How many digits are there for all the house numbers? _____