

# Drawing From a Deck of Attribute Cards

NCTM Standards 1, 2, 6, 7, 8, 9, 10

## Trapezoid Experiment

Draw an attribute card from the deck 30 times, replacing the card and shuffling the deck after each draw. How many times did you pick a card with a trapezoid on it?

### Data

For each draw, mark whether the card has a trapezoid or not by writing YES or NO in the column on the right.

Draw	Trapezoid?
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

Draw	Trapezoid?
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	

Draw	Trapezoid?
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	

What portion of the cards you drew were trapezoids?

\_\_\_\_\_ out of 30

In several classrooms, students drew a card 30 times and recorded the number of triangles they picked. The results for three of the classes are given below.

**A**

Number of triangles picked	5	6	7	8	9	10	11	12	13	14	15
Number of students	0	0	0	8	4	8	7	2	1	0	0

**B**

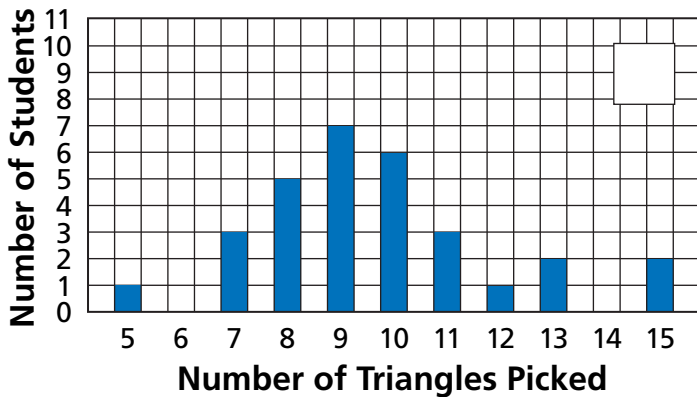
Number of triangles picked	5	6	7	8	9	10	11	12	13	14	15
Number of students	0	0	1	6	6	11	5	1	0	0	0

**C**

Number of triangles picked	5	6	7	8	9	10	11	12	13	14	15
Number of students	1	0	3	5	7	6	3	1	2	0	2

Label each graph with the set of data it matches.

**1**



**2 Challenge**

