



## Domain and Range Student Activity

Name \_\_\_\_\_

Class \_\_\_\_\_

Move to page 5.2.

5. Grab and move the endpoints of the line segment to satisfy each of the following conditions.
- The open endpoint is  $(-3, -5)$  and the closed endpoint is  $(5, 4)$ . Identify the domain and range using inequalities and using words using interval notation.
  - The domain is between  $-2$  and  $1$ , including  $1$ , and the range is between  $-6$  and  $5$ , including  $-6$ . Write the domain and range as inequalities. Identify the endpoints of the line segment, and indicate which endpoint is open.
  - The domain is  $-3 < x \leq 6$  and the range is  $y = 3$ . Identify the endpoints of the line segment, and indicate which endpoint is open.
  - The domain is  $x = 6$  and the range is  $-5 < y \leq 3$ . Identify the endpoints of the line segment, and indicate which endpoint is open.