Name Date



Identifying Domain and Range

Elaborate – Answer Key

Directions: Cut out each of the cards on the following page. Match the graph to the inequality representing its domain and range. Answer the debriefing questions.

STAAR Mission Support Memo

- An open circle endpoint is used to indicate "not equal to" or "excludes"
- A closed circle endpoint is used to indicate "equal to" or "includes"

Debriefing Questions

- How did knowing the endpoints of the graph help you determine the domain and/or range?
 The open circle may indicate the use of the less than symbol (<) and the closed circle may indicate the use of the less than or equal to symbol (≤).
- 2. How does finding a maximum or minimum value in a curved graph help you determine the domain and/or range?

The minimum value indicates the lowest possible y-value for the range, and the maximum value indicates the highest possible y-value for the range.

$$y = 4(2)^{x}$$

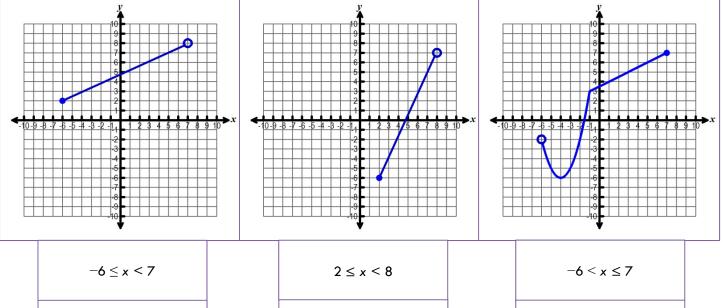
$$y = 3x^{2} - 5$$

$$-\infty \le x < \infty$$

$$0 < y < \infty$$

$$-5 \le y < \infty$$

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$$2 \le y \le 8$$

$$-6 \le y \le 7$$

