

Period: _____ Date: _____

DOMAIN AND RANGE MATCHING ACTIVITY

Read the attached page of notes first below beginning this activity. It gives you examples of domain and range problems just like these.

Match each domain and range given in this table with a graph labeled from A to L on the attached page. Only use Graphs A – L for this page. Write the letter of your answer in the blank provided for each problem.

<u>D</u> 1. Domain: $\{-4 \leq x \leq 4\}$ Range: $\{-4 \leq y \leq 4\}$ Function: NO	<u>G</u> 2. Domain: $\{-3 < x \leq 5\}$ Range: $\{y = -1\}$ Function: YES	<u>H</u> 3. Domain: $\{-4 \leq x \leq 2\}$ Range: $\{-2 \leq y \leq 4\}$ Function: YES
<u>F</u> 4. Domain: $\{x > 0\}$ Range: $\{y = 4\}$ Function: YES	<u>A</u> 5. Domain: $\{-6 \leq x \leq 6\}$ Range: $\{0 \leq y \leq 6\}$ Function: YES	<u>C</u> 6. Domain: $\{x = -5\}$ Range: $\{-2 < y < 6\}$ Function: NO
<u>E</u> 7. Domain: $\{x \geq 0\}$ Range: $\{\text{all real numbers}\}$ Function: NO	<u>J</u> 8. Domain: $\{-3 \leq x \leq 4\}$ Range: $\{-2 \leq y \leq 4\}$ Function: NO	<u>L</u> 9. Domain: $\{\text{all real numbers}\}$ Range: $\{\text{all real numbers}\}$ Function: YES
<u>B</u> 10. Domain: $\{-7 \leq x < 5\}$ Range: $\{-3 \leq y < 1\}$ Function: YES	<u>K</u> 11. Domain: $\{\text{all real numbers}\}$ Range: $\{y \geq 0\}$ Function: YES	<u>I</u> 12. Domain: $\{-3 < x < 4\}$ Range: $\{0 \leq y \leq 5\}$ Function: YES

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Match each domain and range given in this table with a graph labeled from M to X on the attached page. Only use Graphs M to X for this page. Write the letter of your answer in the blank provided for each problem.

<u>V</u> 13. Domain: $\{-6 \leq x \leq 3\}$ Range: $\{-6 \leq y \leq -1\}$ Function: YES	<u>Q</u> 14. Domain: $\{0 \leq x < 5\}$ Range: $\{0 \leq y < 7\}$ Function: YES	<u>N</u> 15. Domain: $\{-5 \leq x < 0\}$ Range: $\{-5 < y \leq -1\}$ Function: YES
<u>X</u> 16. Domain: $\{-6 \leq x \leq 3\}$ Range: $\{-5 \leq y \leq -1\}$ Function: YES	<u>U</u> 17. Domain: $\{0 \leq x \leq 6\}$ Range: $\{0 \leq y \leq 7\}$ Function: YES	<u>O</u> 18. Domain: $\{-4 \leq x \leq 7\}$ Range: $\{-7 \leq y \leq -2\}$ Function: NO <i>open circle</i>
<u>P</u> 19. Domain: $\{x \leq 0\}$ Range: $\{y \geq 0\}$ Function: YES	<u>M</u> 20. Domain: $\{2 \leq x \leq 7\}$ Range: $\{1 \leq x \leq 6\}$ Function: NO	<u>R</u> 21. Domain: $\{0 \leq x \leq 4\}$ Range: $\{0 \leq y \leq 6\}$ Function: YES
<u>W</u> 22. Domain: $\{-4 < x < 5\}$ Range: $\{-2 \leq y < 5\}$ Function: YES	<u>S</u> 23. Domain: $\{x \leq 5\}$ Range: $\{y = 0\}$ Function: YES	<u>T</u> 24. Domain: $\{-7 < x < 0\}$ Range: $\{-3 < y < 4\}$ Function: YES