

Questions for Domain and range worksheet

#1 If the domain is  $3 \leq x \leq 6$ , what is the range?

Draw the domain.

Is  $y = 3/2$  in the domain of  $2 \leq x \leq 5$ ?

Is  $x = 11/2$  in the range of  $-2 \leq x \leq 4$ ?

#2 What is the domain of the function that has positive y values?

Is  $y = 5$  in the domain  $3 \leq x \leq 6$ ?

Is  $x = -6$  in the range  $-2 \leq y \leq 2$ ?

#3 Mark the domain  $3 \leq x \leq 7$  using vertical lines on the graph.

Is  $y = 3$  in that domain?

Is  $y = -5$  in that domain?

Is  $x = 2$  in the range of  $-4 \leq y \leq 0$ ?

If  $x = 6$ ,  $y$  is approximately equal to \_\_\_\_\_.

#4 Place an X on the point in  $-1 \leq x \leq 3$ .

Place an M on the point in  $3 \leq x \leq 5$ .

Place an O on the point in  $-8 \leq x \leq 4$ .

Place a T on the point in  $-6 \leq y \leq -3$ .

Find the domain or range that include the remaining point.

A.  $-1 \leq x \leq -2$

B.  $-1 \leq x < -2$

C.  $-1 \leq x \leq 1$

D.  $0 \leq x \leq 2$