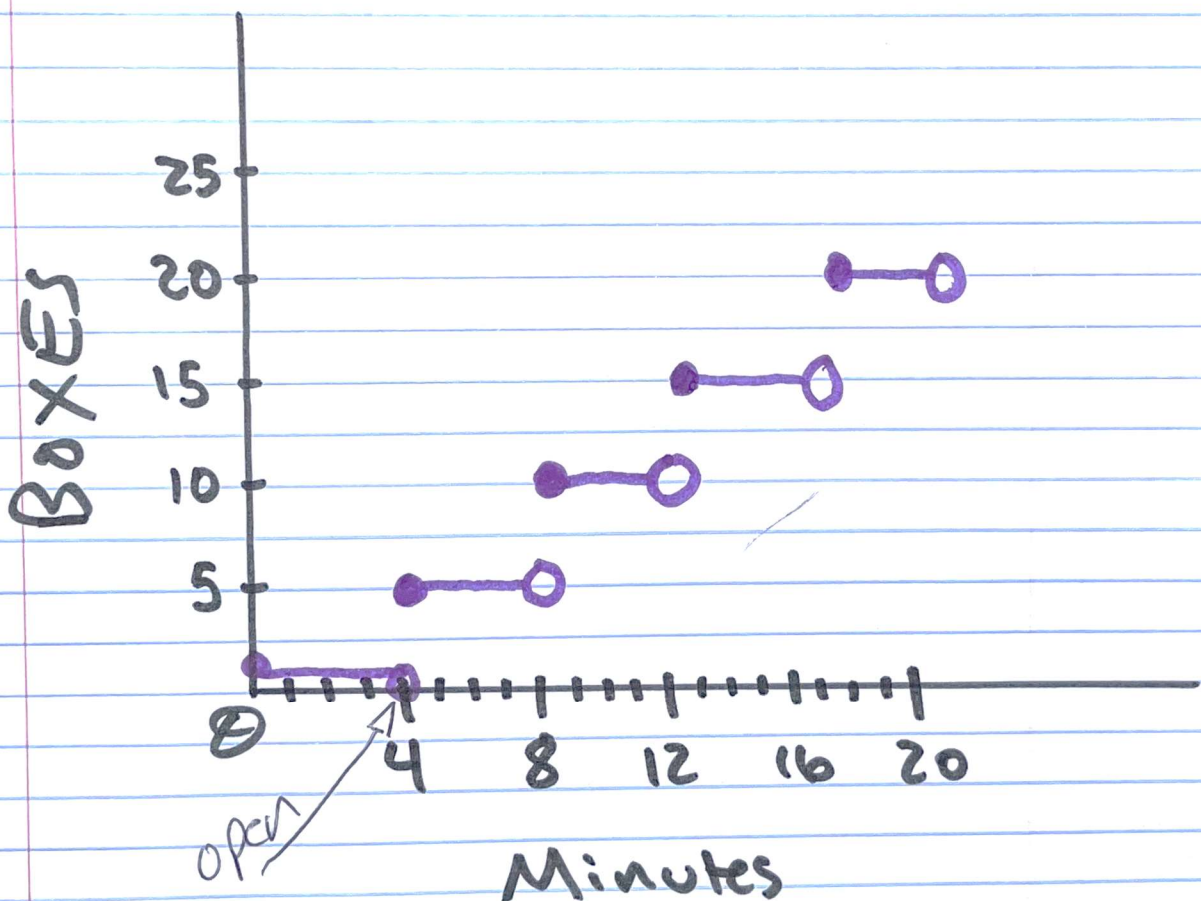


Lesson ~~4-4~~ <sup>4-4</sup> → Piecewise Functions

It takes a cart 4 minutes to deliver a load of boxes

5 boxes fit on the cart at a time

|                     |   |   |   |   |    |    |    |
|---------------------|---|---|---|---|----|----|----|
| Mins (x)            | 0 | 2 | 4 | 6 | 8  | 10 | 12 |
| Boxes Delivered (y) | 0 | 0 | 5 | 5 | 10 | 10 | 15 |



Cart trip is 4 minutes

Cart fits 5 boxes

let  $f(x)$  equal the number of boxes delivered as a function of  $x$  minutes

$$f(x) \begin{cases} 0, & 0 \leq x < 4 \\ 5, & 4 \leq x < 8 \\ 10, & 8 \leq x < 12 \\ 15, & 12 \leq x < 16 \end{cases}$$