

WIN 1-7 → Interpreting y-Intercepts

We know the y-intercept is what y equals when x is zero.

In word problems, it's known as the initial value, but it's the same thing.

A DJ charges an hourly fee and a one-time set up fee.

The equation $y = 50x + 75$ represents total cost in dollars, y and the amount of time in hours, x.

What is the one-time fee?

\$75

The same question can be given as a table!

A DJ charges an hourly fee and a one-time set up fee.

Examples of total fees include:

Hours	2	4	6
Total fees (\$)	175	275	375

What is the one-time fee?

Walk back the table to get hour 0

Hours	0	2	4	6
Total fees (\$)		175	275	375

$\xleftarrow{-100}$ $\xleftarrow{-100}$ $\xleftarrow{-100}$

\$75