

WIN 1-8 → Interpreting Rates of Change

Rate of change **MEANS** Slope.

In word problems, it's the thing that happens again and again.

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

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

What is the hourly fee?

\$50

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 hourly fee?

$$\frac{\text{change in } \$}{\text{change in hours}} = \frac{100}{2} = 50$$

\$50