

Match the Input Changes

Divide each output change by its own input change

A fictional learner says: “The output jumps by 4, then 6, so the rate changes.” In a supplied linear model, points (1, 7), (3, 11) and (6, 17) have unequal input intervals. The changes are $4 \div 2 = 2$ and $6 \div 3 = 2$ output units per input unit. Compare rates, not raw jumps across different intervals.

Your new practice

A supplied linear cord model for 0 to 8 minutes gives these totals. Calculate the rate over each displayed interval. Write one sentence about why the output jumps differ, and check the claim “ $24 \div 5$ gives the change rate.”

Time (minutes)	Total cord (meters)
1	8
5	24
8	36

Your two rates, units and response to the claim

For a next task, keep the two differences in the same order. If quantity direction is unclear, first label input, output and the unit sought.