

Proportional Relationships Followup Check

1 Test a different claim

Work independently after another learning opportunity. These constructed models and the learner statement are fictional.

For 0 to 5 minutes, a feeder starts with 3 meters of cord already outside and adds 2 meters each minute. Output means total cord outside, including the starting length.

Time (minutes)	Total cord (meters)
0	3
1	5
3	9
5	13

A fictional learner says, “The output gains 2 meters each minute, so total cord is proportional to time.” Evaluate the claim using two positive-time quotients and the zero-input pair. Write a rule for total cord and distinguish its rate of increase from a proportionality constant for the stated output.

Ratios, point, rule and conclusion

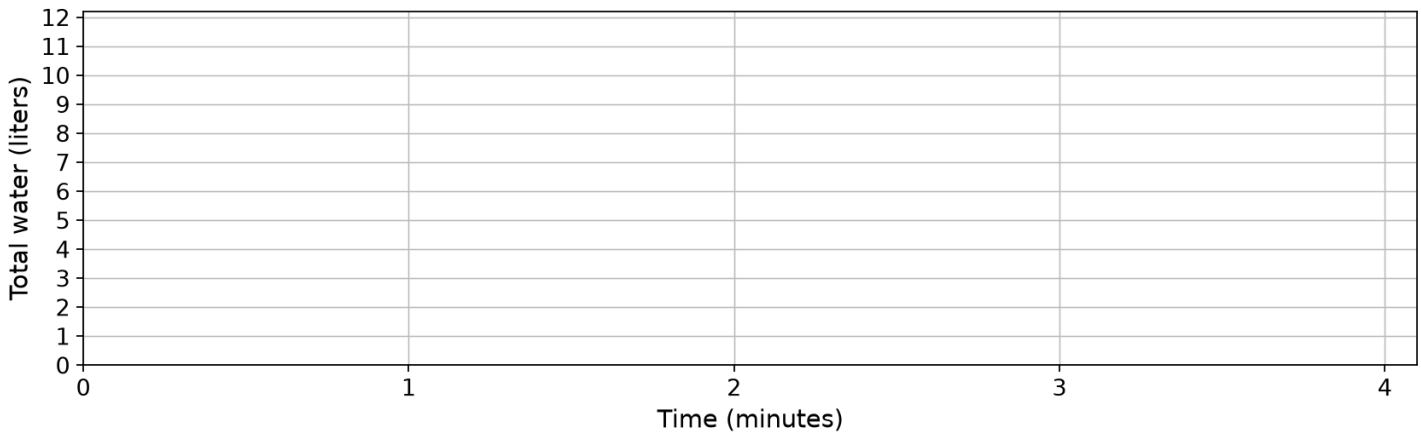
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2 Represent and qualify a different model

For 0 to 4 minutes, a different tank begins empty and gains 2.25 liters each minute. Let x be minutes and y be total liters.

x (minutes)	y (liters)
0	
1	
2	
4	

Complete the table, state k with units and write a rule. Plot or describe its four labeled points on the grid. Explain the zero-input point and the one-minute point.



3 Another record without a supplied rule

Another exact record shows only (1 minute, 6 meters), (2 minutes, 12 meters), (5 minutes, 30 meters). Does it establish exactly 36 meters at 6 minutes? Explain the displayed evidence and the condition needed for that prediction.

Representation and prediction explanation