

Variables and Patterns #1 Teacher Notes and Answer Key

Possible Directions to Student: Match the story to the graph and table that represent the same information.

Answer Key:

Group 1. Sam is the Jumper

Sam started out really fast. She did lots of jumps in the first few seconds. As time went on, her number of jumps for every 10 seconds was less and less. She was almost not jumping at the end of the 120 seconds.

GRAPH 2

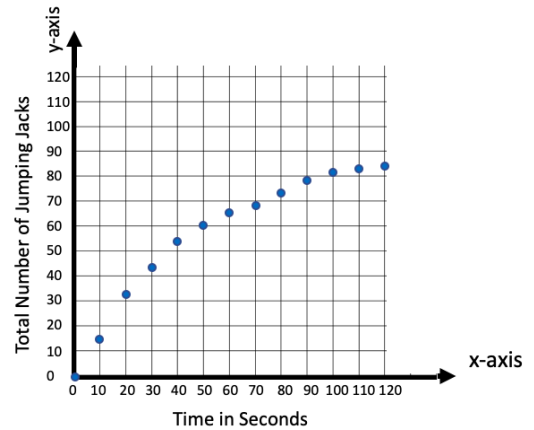


Table C

Time (seconds)	0	10	20	30	40	50	60	70	80	90	100	110	120
Total Jumps	0	15	31	44	54	60	65	69	73	79	81	83	84

Group 2. Paulo is the Jumper

Paulo jumping was very steady. He did about 10 jumps in every 10 seconds. He was able to keep this pace for 2 minutes.

GRAPH 4

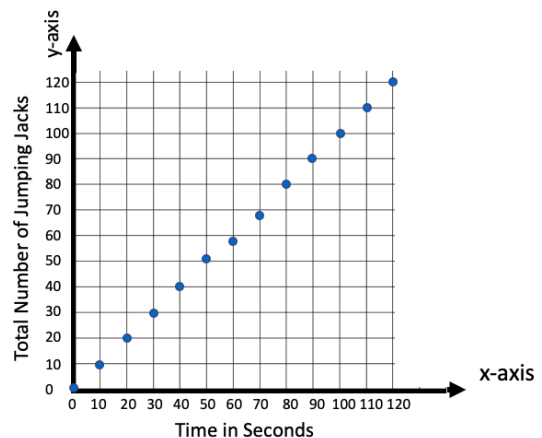


Table A

Time (seconds)	0	10	20	30	40	50	60	70	80	90	100	110	120
Total Jumps	0	10	20	30	40	50	59	69	80	90	100	110	120

Group 3. Li Wei is the Jumper

Li Wei kept a consistent pace. As time increased by 10 seconds, he did 6 more jumps for each time interval.

GRAPH 3

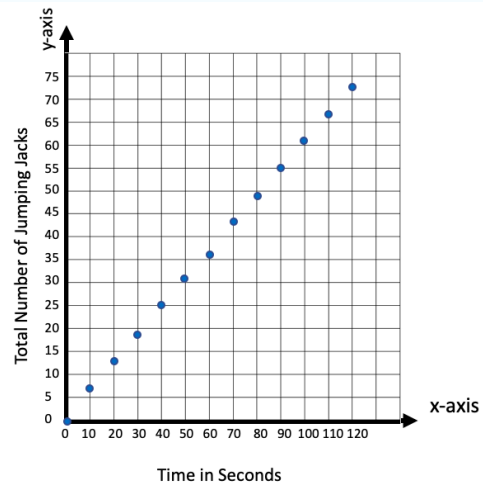


Table D

Time (seconds)	0	10	20	30	40	50	60	70	80	90	100	110	120
Total Jumps	0	7	13	19	25	31	37	43	49	55	61	67	73

Group 4. Ana is the Jumper

Ana had a steady pace for the first 20 seconds. Then the pace slowed down, increased, slowed down, and finally in the last 30 seconds the pace increased a lot.

GRAPH 4

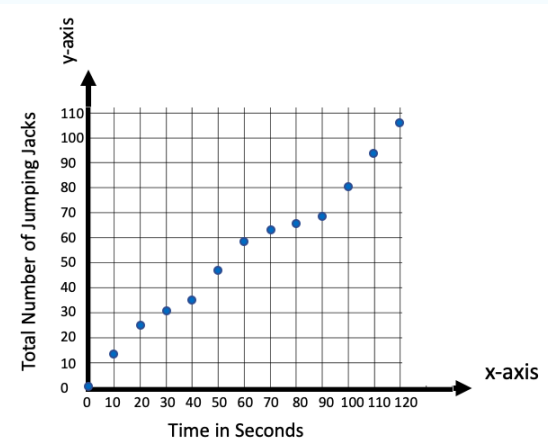


Table F

Time (seconds)	0	10	20	30	40	50	60	70	80	90	100	110	120
Total Jumps	0	12	24	30	35	48	59	62	65	68	80	93	107

Group 5. Torie is the Jumper

Torie started with consistent jumping. As time increased by 10 seconds, she did about 10 jumps. Near the end of the time, her shoe came untied. So, she stopped jumping.

GRAPH 6

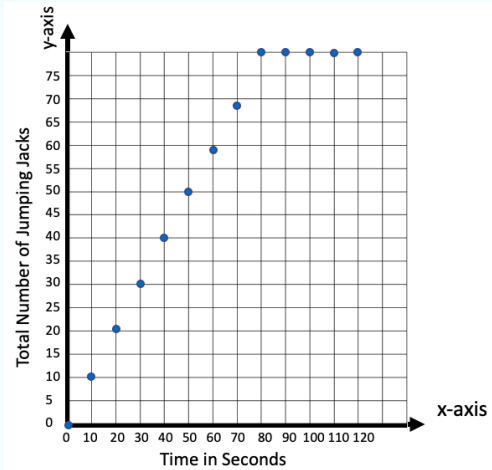


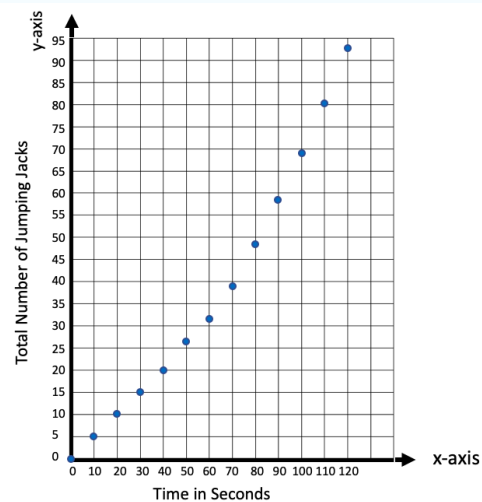
Table B

Time (seconds)	0	10	20	30	40	50	60	70	80	90	100	110	120
Total Jumps	0	10	20	30	40	50	59	69	80	80	80	80	80

Group 6. Jackson is the Jumper

Jackson started with a steady pace. Then, as time went on, his total number of jumps grew more and more.

GRAPH 5



Time (seconds)	0	10	20	30	40	50	60	70	80	90	100	110	120
Total Jumps	0	5	10	15	20	26	32	39	48	58	68	80	93