

**Variables and Patterns Student Resource**  
**Jumping Jack Examples: Match the Stories, Tables, and Graphs**

**STORIES**

**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.

**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.

**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.

**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.

**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.

**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.

**TABLES**

Table A

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

Table B

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

Table C

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

Table D

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

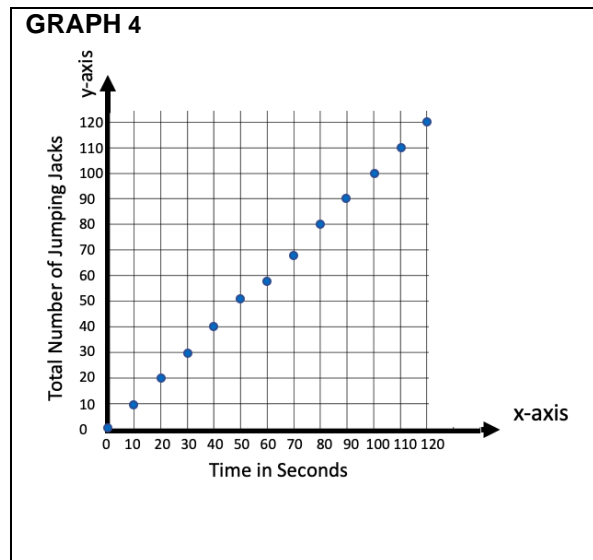
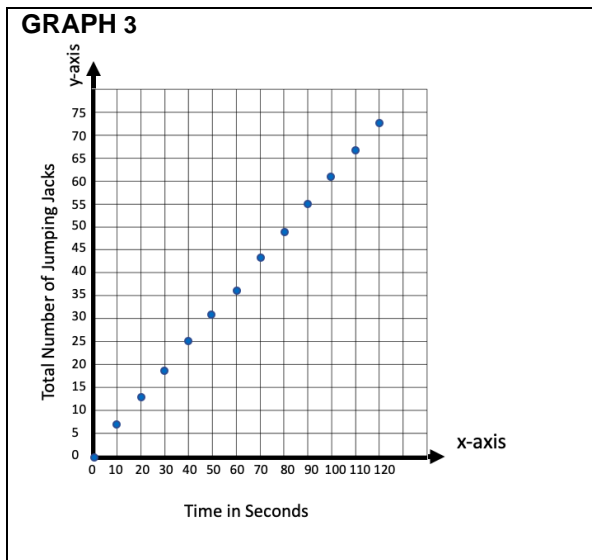
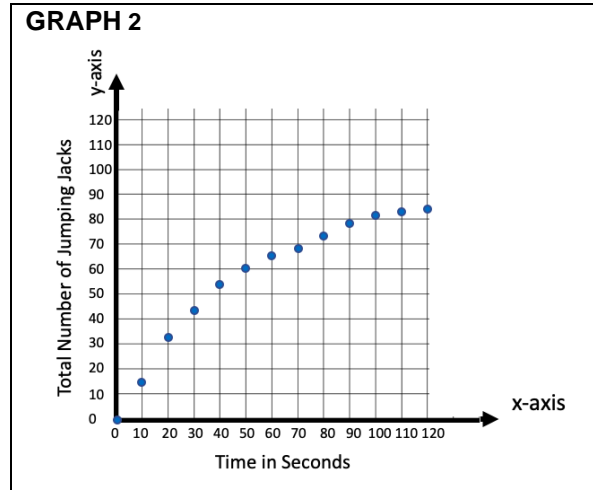
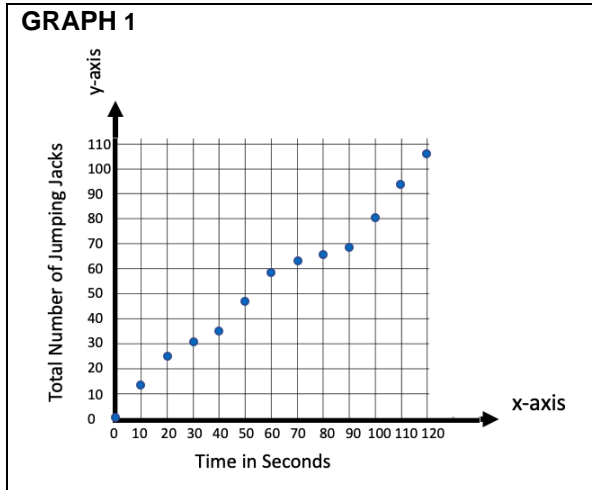
Table E

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

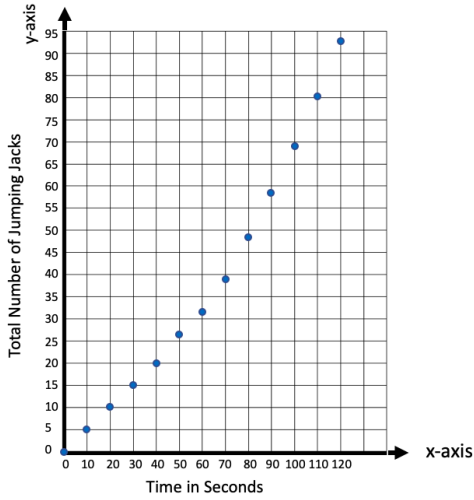
Table F

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

**GRAPHS**



**GRAPH 5**



**GRAPH 6**

