

Exponential Modeling Worksheet

Year, x	Number of trampolines, y
1	12
2	16
3	25
4	36
5	50
6	67
7	96

A store sells trampolines. The table shows the numbers y of trampolines sold during the x th year that the store has been open.

- Write a function that models the data.
- Predict the number of trampolines sold in the eighth year.

USING TOOLS A doctor measures an astronaut's pulse rate y (in beats per minute) at various times x (in minutes) after the astronaut has finished exercising. The results are shown in the table. Use a graphing calculator to find an exponential model for the data. Then use the model to predict the astronaut's pulse rate after 16 minutes.

x	y
0	172
2	132
4	110
6	92
8	84
10	78
12	75

