

# Continuous and Discrete Data


Name: \_\_\_\_\_

Data is **continuous** if all numbers between data values are possible. Otherwise, the data is **discrete**.  
 Non-numerical data is always discrete.

1. Is the data discrete or continuous?

a) Shoe sizes: 5    5    6     $6\frac{1}{2}$     7    7    7    8     $8\frac{1}{2}$

Is size  $6\frac{1}{4}$  possible? No The data is discrete.



b) Length of pencils (cm): 8    3    12    17.1    13.4    19    18.6

Is length 8.5 cm possible? 18.7 cm? \_\_\_\_\_ The data is \_\_\_\_\_.

c) Number of games won by contestants: 7    6    8    12    4    0    3

Can there be half a \_\_\_\_\_? The data is \_\_\_\_\_.

d) Distance Jenn runs each day (in km): 15    15    20    22    22    25

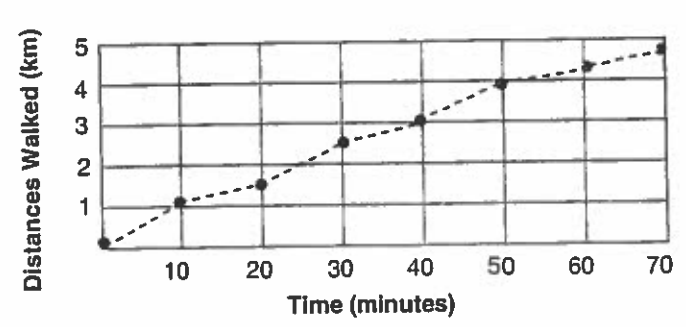
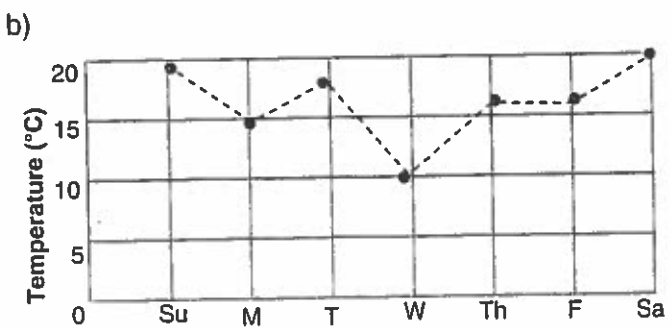
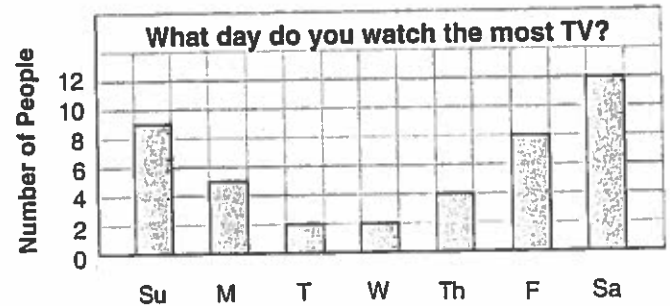
Can there be half a \_\_\_\_\_? The data is \_\_\_\_\_.

e) Number of runners Jenn sees every day? 7    14    16    8    12    14

Can there be half a \_\_\_\_\_? The data is \_\_\_\_\_.



2. Decide whether the data on each axis is discrete or continuous. Explain your answer.

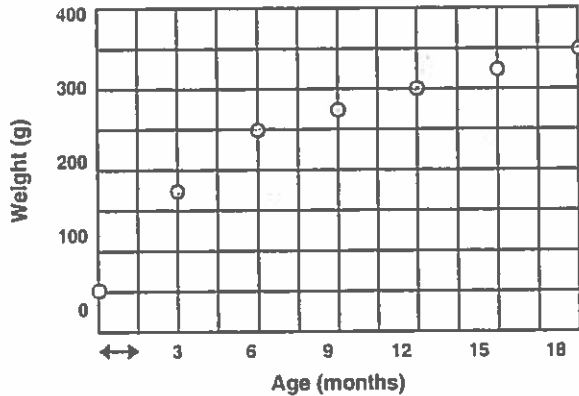


# Choosing and Interpreting Graphs



1.

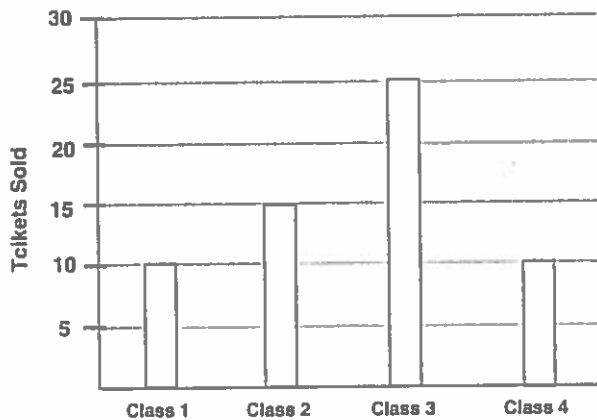
Weight of Mary's Guinea Pig



- How many months does the interval shown by the arrow represent?
- How many weeks does the interval represent?
- Describe the trend you see in the graph.
- The guinea pig was born at the beginning of January. In which month did it weigh 250 g?
- Between which months did it grow the fastest?

2.

Concert Ticket Sales in Katia's Grade



- $\frac{2}{3}$  of the tickets sold were adult tickets.

How many adult tickets were sold?

- Adult tickets sell for \$5.00 and children's tickets sell for \$2.00. Calculate the total value of the tickets sold.

- The money from the school concert is going toward a grade-wide trip. The trip costs \$300.
  - How much more money is needed?
  - How many adult tickets would have to be sold to cover the remaining cost?

