PDM6-8: Continuous and Discrete Data

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

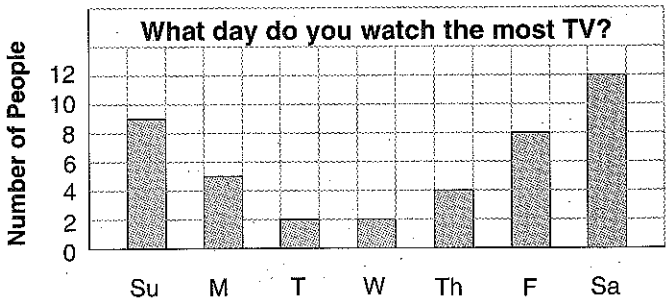
Can there be half a _____ ? The data is _____.

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

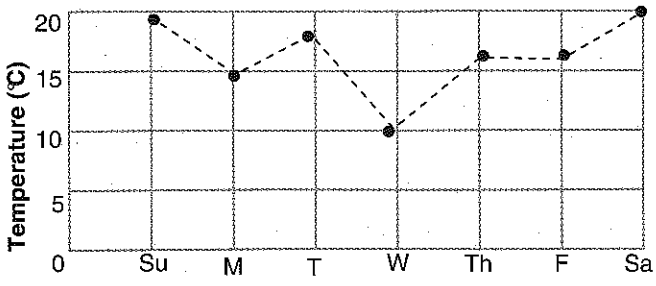
Can there be half a _____ ? The data is _____.

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

a)



b)



c)