

Objective: SWBAT read different graphs and explain why the graph that was drawn best represents that different data given.

Warm Up:

1. Solve $\sqrt{x-5}=4$

$$\begin{array}{l} \sqrt{x-5} = 4 \\ \sqrt{x} = \sqrt{9} \\ x = 3 \end{array}$$
$$\begin{array}{l} (\sqrt{x-5})^2 = 4^2 \\ x-5 = 16 \\ x = 21 \end{array}$$

2. If $f(x) = -2x + 5$ then what is value of $f(-3) + f(0)$?

$$\begin{array}{c} -2(-3) + 5 + -2(0) + 5 \\ \quad \vee \qquad \qquad \vee \\ \quad 11 \qquad + \qquad 5 \\ \qquad \qquad 16 \end{array}$$

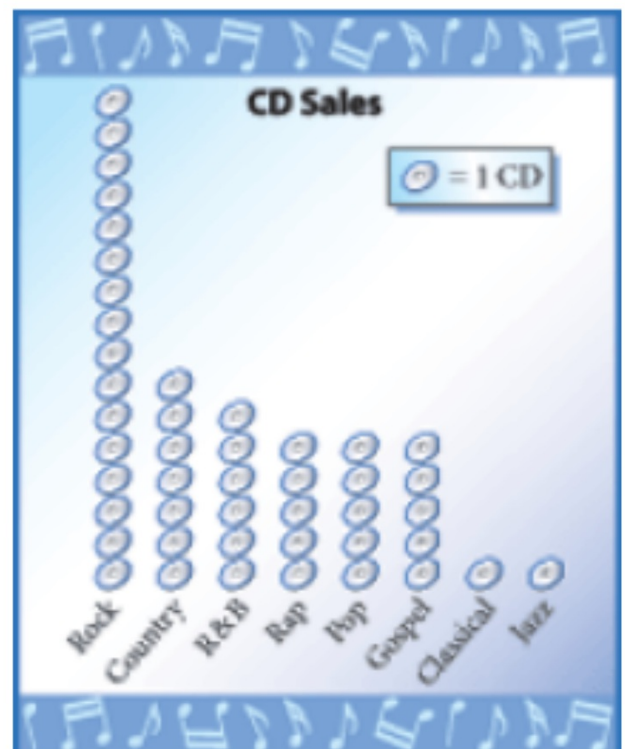
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This pictograph shows the number of CDs sold at Sheri's music store in one day.

Which type of music sold the most? How do you know?

Rock sold the most
because it has the most
CD's represented.

How many CDs of this type of music were sold? 16



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What is data?

A collection of information, numbers or pairs of numbers, usually measurements of real-world information.

Give me some examples of types of data we can collect.

Population, Shoes sold, ice cream faves, tickets sold, ages,

When have you used data in your life (not a school example)

ratings on apps, GBs on phone, space for game downloads, sports stats,

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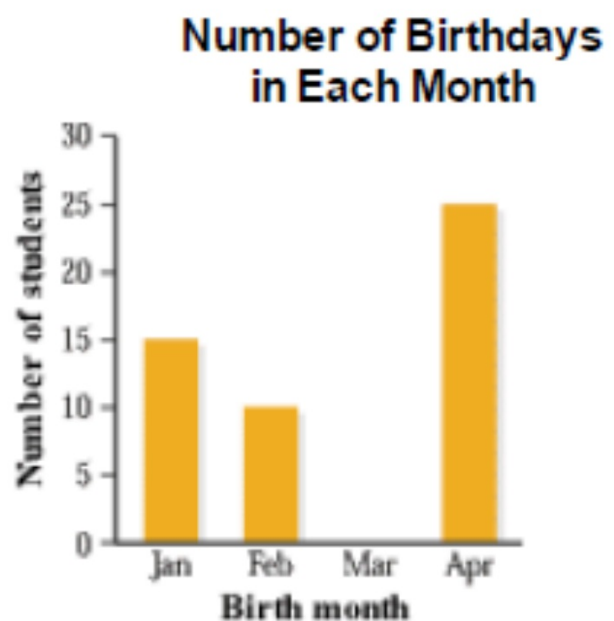
What is a bar graph?

Uses categories on the x axis

Uses frequency on the y axis

Uses bars that do NOT touch

The categories are normally non-number things like eye color, favorite animal...



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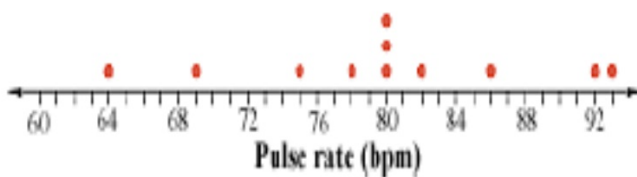
What is a dot plot?

Each item in a numerical data set is shown

This is a numerical data set like shoe size, pulse rate

Shown on a number line with data above the line

Shows spread of data and clusters of data



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Let's find data on the different types of eye color in the class:

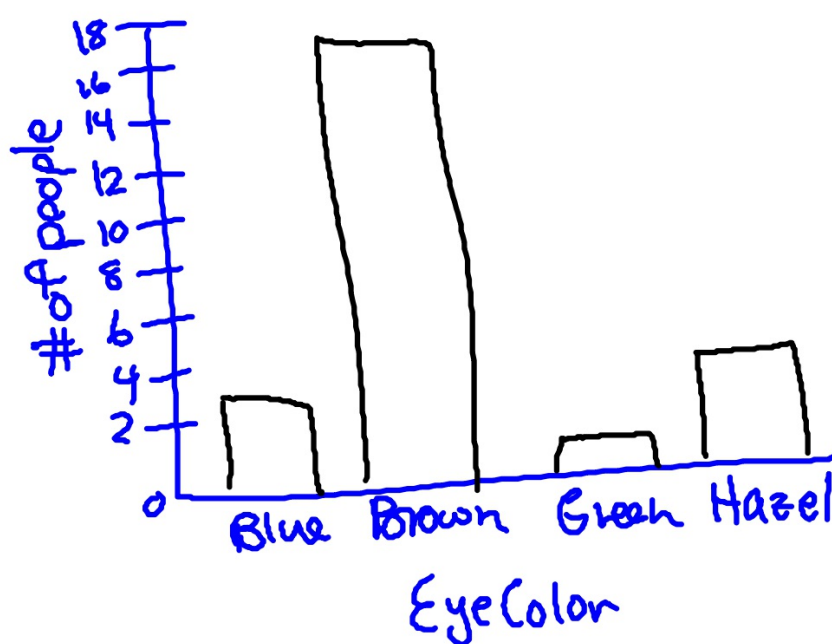
What is the appropriate way to display this data?

Blue: 3

Brown: 17

Green: 1

Hazel: 4



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Let's find data on the different shoe sizes in the class:

Shoe Size	Number of People
5	1
6	3
7	4
8	5
9	7
10	2
11	2
12	2
13	0

What is the appropriate way to display this data?

