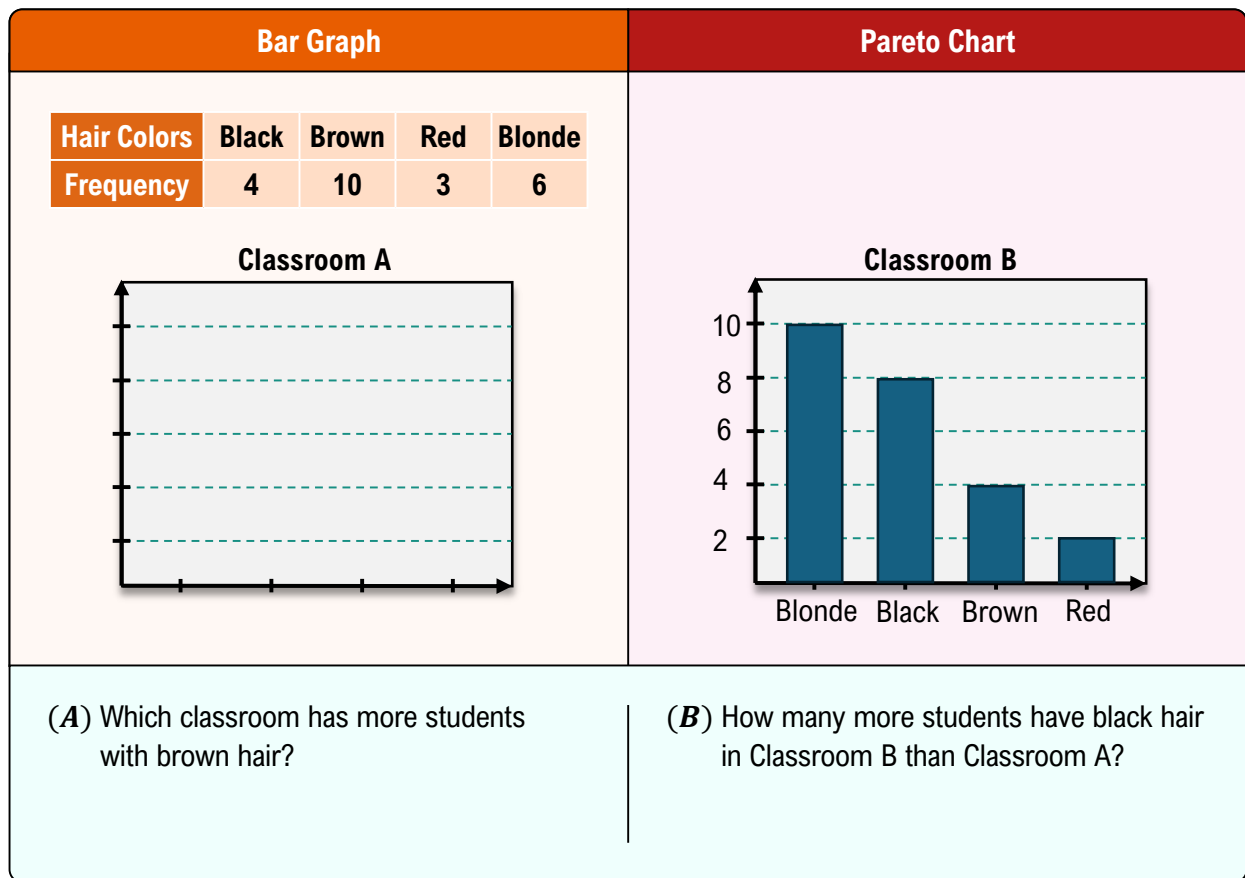## TOPIC: BAR GRAPHS & PARETO CHARTS

Creating Bar Graphs and Pareto Charts

◆ **Bar Graphs** show categorical data. The bar's height/length represents the _____ across each category.

► **Pareto charts** are bar graphs where the bars are arranged in _____ order.

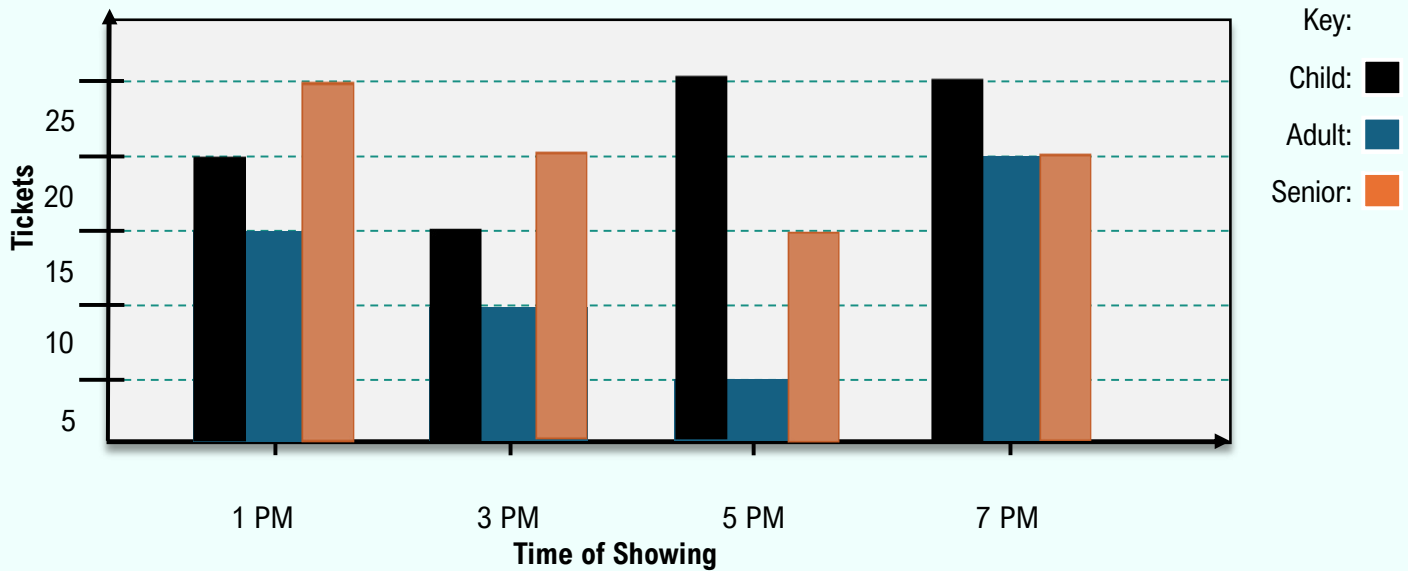| EXAMPLE	The data table below shows the number of students with each hair color in Classroom A. Use the data to create a bar graph and compare it to the bar graph of hair colors in Classroom B.

Bar Graph	Pareto Chart

Hair Colors	Black	Brown	Red	Blonde
Frequency	4	10	3	6

Classroom A

Classroom B

(**A**) Which classroom has more students with brown hair?

(**B**) How many more students have black hair in Classroom B than Classroom A?

PRACTICE	Using the table below, which category would appear first in a Pareto Chart representing the data?

Ticket Type	Child	Adult	Senior	Member
Frequencies	23	52	41	39

EXAMPLE

The bar graph below shows the ticket type sold by a movie theater for different showings of a new film. Use the data to answer the questions below.

Key:

Child: ■

Adult: ■

Senior: ■

(A) How many more seniors attended the 1 PM showing than the 5 PM showing?

_____

(B) How many more child tickets sold for the 5 PM showing than adult tickets for that time?

_____

(C) What showing was the most popular? Which ticket type sold the best?