

GRAPHS

What Are Graphs?

- A way to show information in the form of shapes or pictures.
- Graphs show the relationship between two sets of information.
- There are many different types of graphs. A few of them include bar graphs, line graphs, pictographs, and circle graphs.

How to read and interpret graphs:

The bars on a **bar graph** can be horizontal or vertical.

- A bar graph uses rectangular bars to show each value.

For example:

Miles Run

 **PREVIEW**
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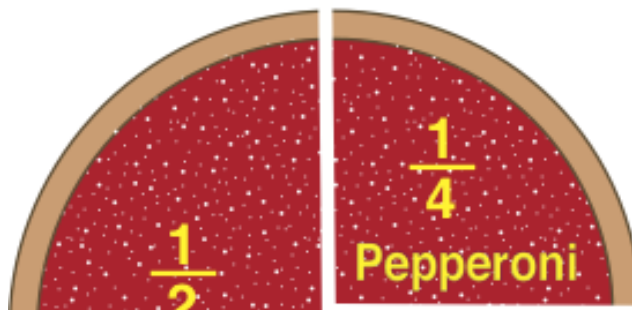


This graph shows that Bob ran 20 miles, Shawna ran 30 miles, and Akil ran 35 miles.

A **circle graph**, or **pie chart**, shows information in parts of a whole.

- The parts are broken into fractions to show comparisons.

For example:



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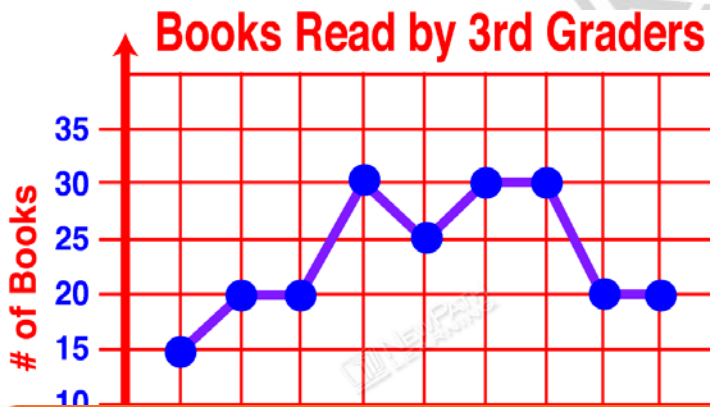
Other $\frac{1}{8}$

This graph shows that $\frac{1}{2}$ of third graders like cheese pizza, $\frac{1}{4}$ of third graders like pepperoni pizza, $\frac{1}{8}$ of third graders like mushroom pizza, and $\frac{1}{8}$ of third graders like pizza with other toppings.

A **line graph** shows changes over time.

- A line graph has points that are connected in the order they happened.

For example:



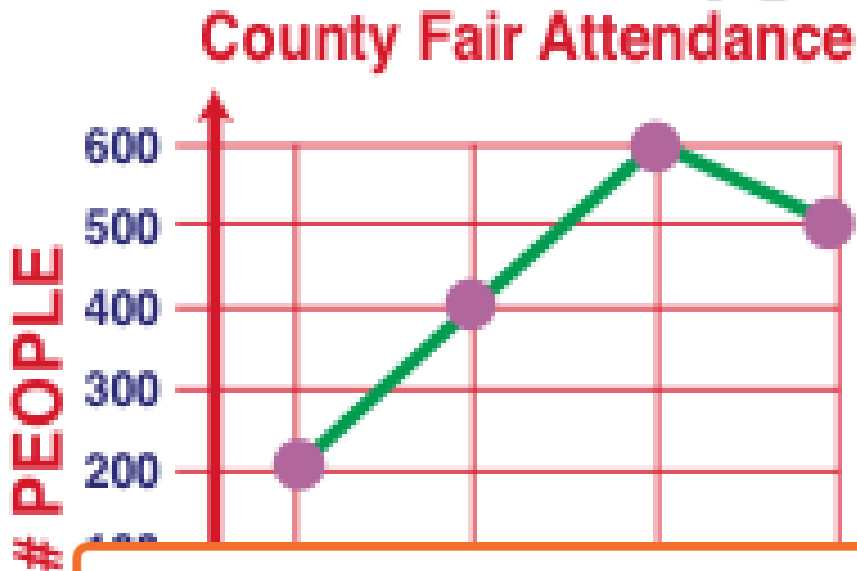
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This graph shows that there were 15 books read in September, 20 in October and November, 30 in December, 25 in January, 30 in February and March, and 20 books read in April.

Try This!

- Answer the following questions based on the graph below.



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How many attended the Fair on **Thursday**?

How many attended the Fair on **Sunday**?

How many more attended the Fair on **Saturday** than on **Thursday**?
