

Battle of the Bands

Using Data and Graphs

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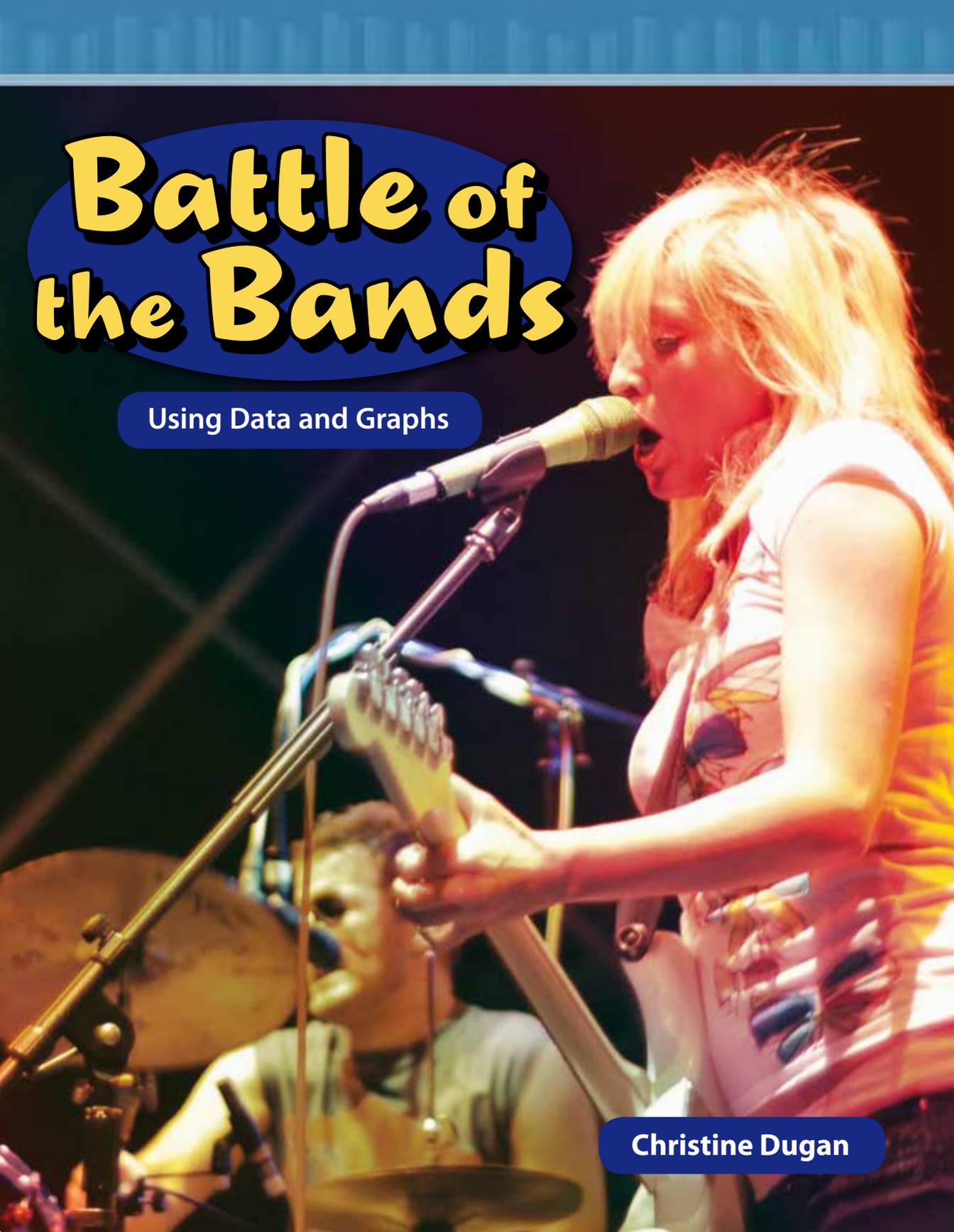


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Music for a Good Cause

The kids at school are really excited! People around town are excited, too. They are waiting for something that has been planned for weeks. Tonight is the Battle of the Bands event. Musicians from around the area are performing. The concert will be a competition to determine the most popular band.

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Benefit Concerts

Typically the proceeds from concert ticket sales go to pay band members and to cover concert costs. Occasionally, a band or musician will agree to perform at a benefit concert. In that case, fans buy tickets but the proceeds go to a charitable organization or cause rather than to the band.



The best part of this event is that the money raised tonight will help tornado victims. A local town was struck by a strong tornado this year. The town was seriously damaged. Many people lost their homes. Even the high school was destroyed.

Many volunteers are trying to fix the damage caused by the tornado. Our town wanted to help. We decided to raise money with this community event.

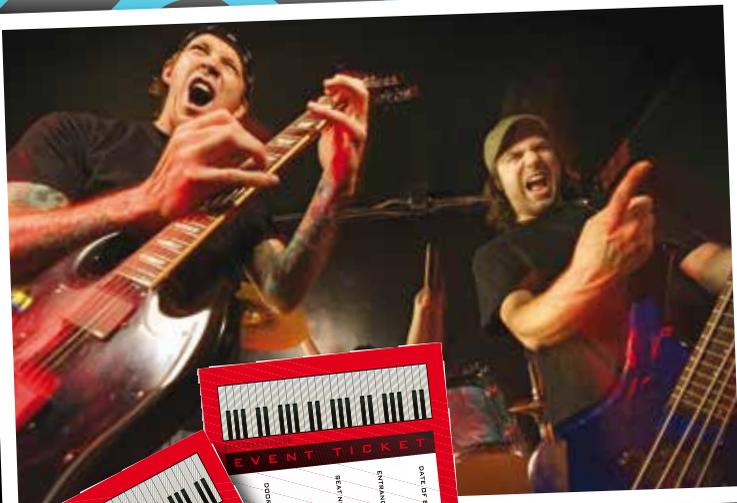
Planning the Show

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Bands that play different kinds of music have offered to participate. There will be rap, hip-hop, rock, pop, reggae (REG-ey), and country music. Some school bands will perform, too. Everyone wants this event to be a lot of fun.

A Battle of the Bands contest is always interesting for the audience. They can hear music that they might not listen to at home. A **diverse** (dih-VURS) line-up boosts ticket sales. The more tickets that are sold, the more money there will be to donate.

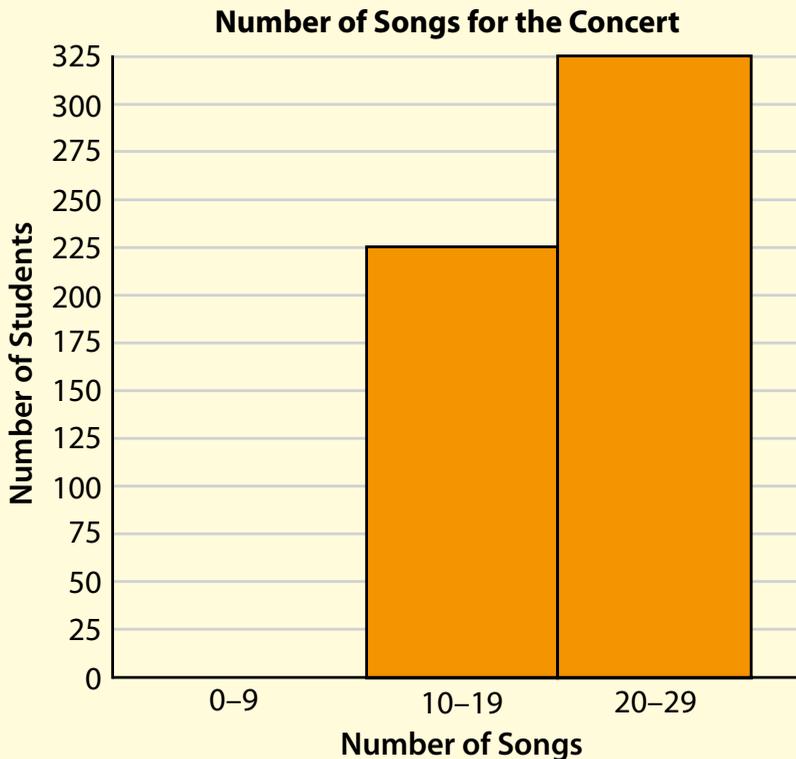
The bands are volunteering their time. They will not be paid for performing. They want as much money as possible to go to the tornado victims. That is why they agreed to a benefit concert.



LET'S EXPLORE MATH

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A local event planner offered to **coordinate** the Battle of the Bands. To plan the event, she looked at the results of a survey of 550 students. The survey asked how many songs should be performed at the event. The results of the survey are displayed on the **histogram** below.



- What **interval** did the event planner use to represent the number of songs on the histogram?
- The first interval is 0–9 songs. How many people said they thought 0–9 songs should be included in the event?
- Based on the survey results, how many songs do you think should be included in the program? Why?

PROBLEM-SOLVING ACTIVITY

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The Tour Manager's Assistant

The band Lucky Ducky has just closed a show and is heading for the next stop on its concert tour. Lucky Ducky's tour manager needs to order items for the souvenir stands at future shows and wants to review the sales from past concerts. You are her assistant and need to present the data to her. The table below shows the number of each item sold from the past five cities on the tour.

Souvenir	Number Sold
hat	405
T-shirt	1,150
sweatshirt	960
beach towel	315
bracelet	1,570
CD	695
DVD	285

