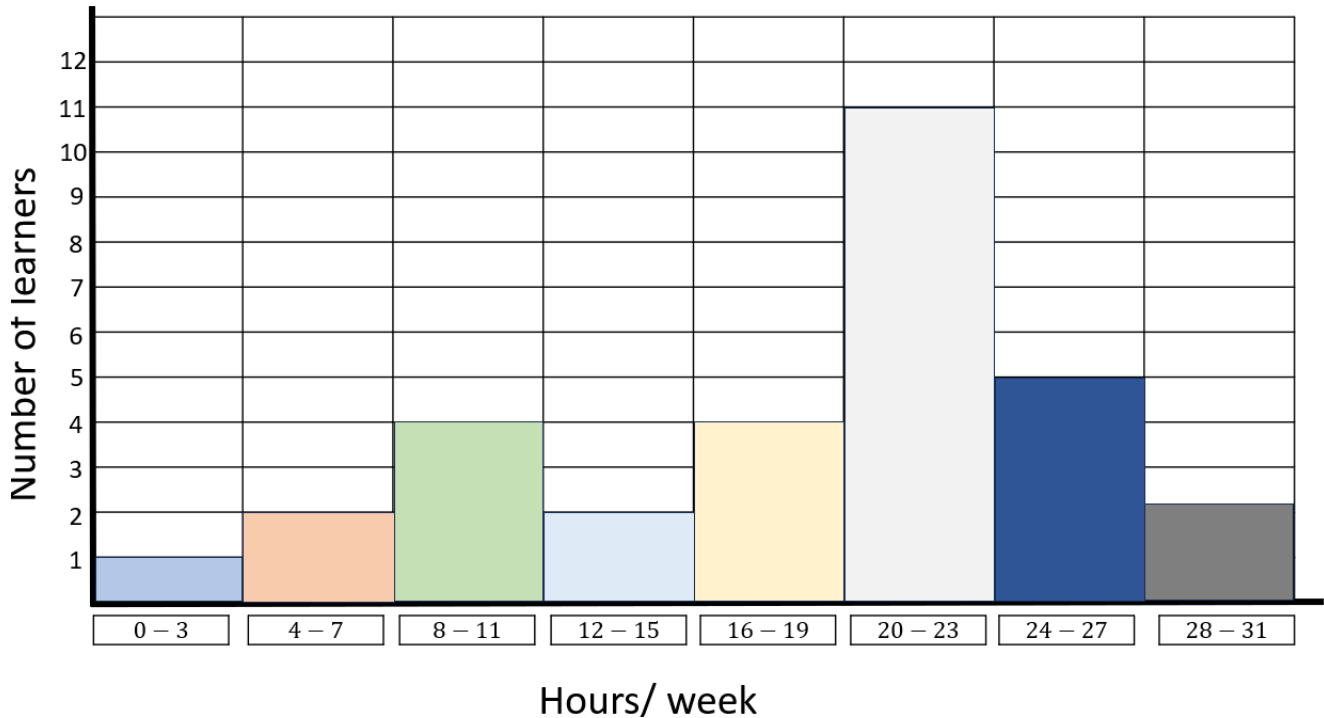


SHARP

Worksheet 20: Interpret, Analyse and Report Data

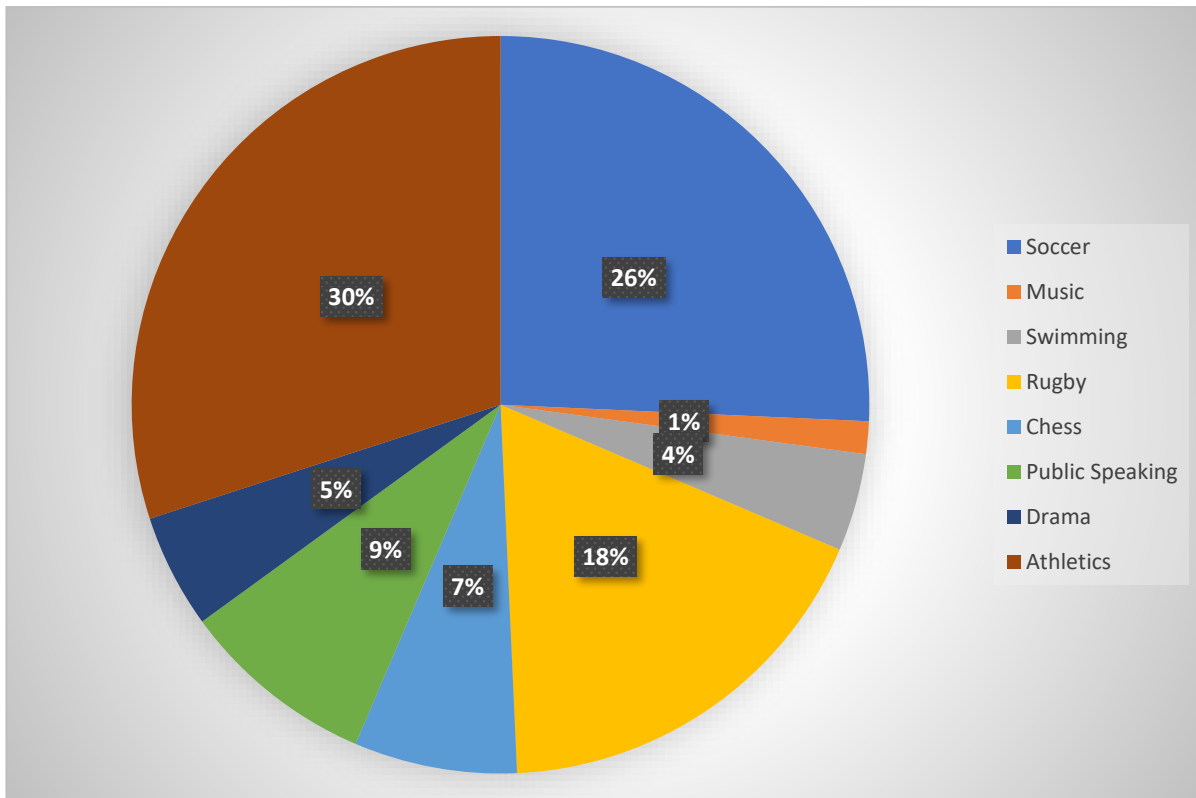
Grade 8 Mathematics

Learners in a class were asked how many hours in a week they spend on social media. The following graph was developed from the data.



- 1) Identify what type of graph this is.
- 2) How many learners are in this class?
- 3) How many learners are on social media for more than 15 hours in a week?
- 4) Identify and describe the modal class in relation to this data.
- 5) What is the estimated mean of this data?
- 6) Do you think that there is a possible relationship between students who spend many hours on social media and their academic results? Justify your answer.
- 7) If a learner spends 2 hours and 15 minutes on social media each day, how many hours do they spend on social media in a week? Write your answer in hours and minutes.

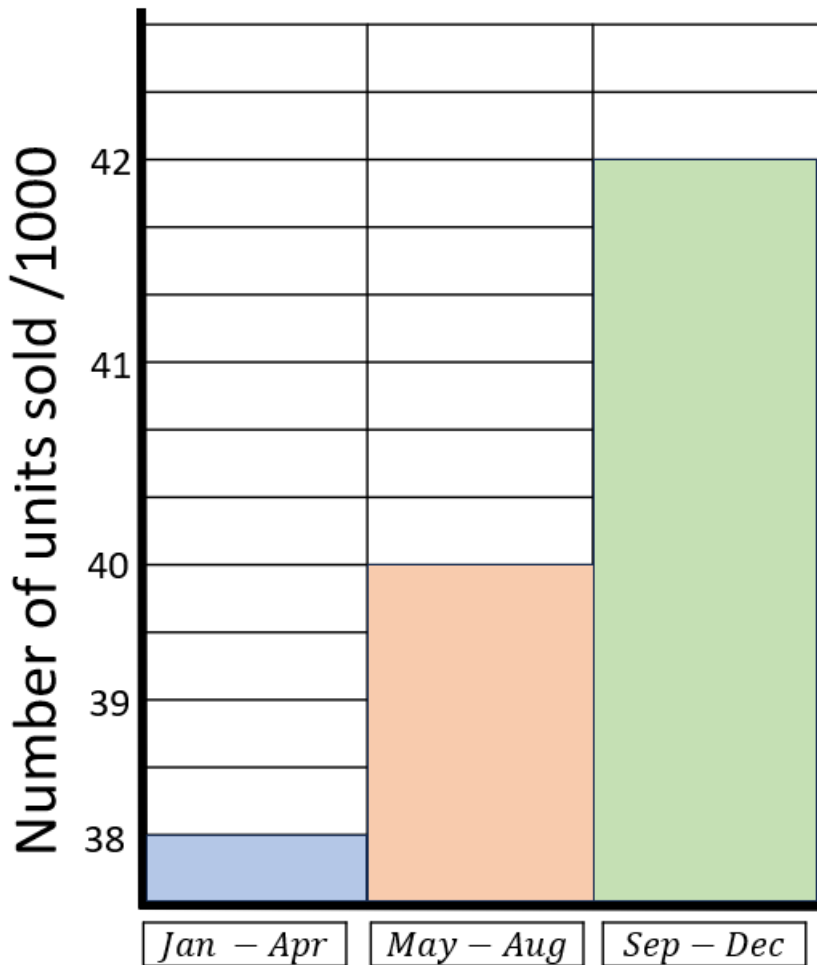
The following graph was developed based on the data of 140 students in grade 8.



- 8) What type of graph is this?
- 9) Provide a heading for the graph that represents the data.
- 10) Arrange the sports and extra mural activities in ascending order.
- 11) The school is looking at cancelling one extra mural and one sport due to poor attendance. Which sport and extra mural should they cancel.
- 12) How many learners play rugby?
- 13) If the data was further divided into male and female for each sport and extra mural category, which graph would you use?

Sometimes graphs can be misleading. This can be intentional to push a certain perspective.

Sales of a new energy drink for the year 2024.



- 14) How many energy drinks were sold between September and December?
- 15) What is the range of this data?
- 16) Why do you think this data is misleading?
- 17) Redraw the graph showing a more accurate representation of the data.