

Interpreting Data Tables

DG 1

Instructions: The following data table contains results from a survey about favorite ice cream flavors. Use it to answer the questions below.

Survey: Favorite Ice Cream Flavor

	Vanilla	Chocolate	Chanilla	Strawberry	Cookies-n-Cream	Mint Chip	Other
# of participants	7	5	15	8	12	4	6

- 1 What was the most popular flavor? Chanilla
- 2 What was the least popular flavor? Mint Chip
- 3 How many participants answered "chocolate"? 5
- 4 How many participants answered "mint chip" or "other"? $4 + 6 = 10$
- 5 Does this table contain discrete or continuous data? discrete
- 6 Would a bar graph or a line graph be best for this type of data? bar graph

Instructions: The following data table contains data from a solar energy farm. Use it to answer the questions below.

Solar Farm Energy Production

	2014	2015	2016	2017	2018	2019
Energy (MWh)	725	680	774	955	986	924

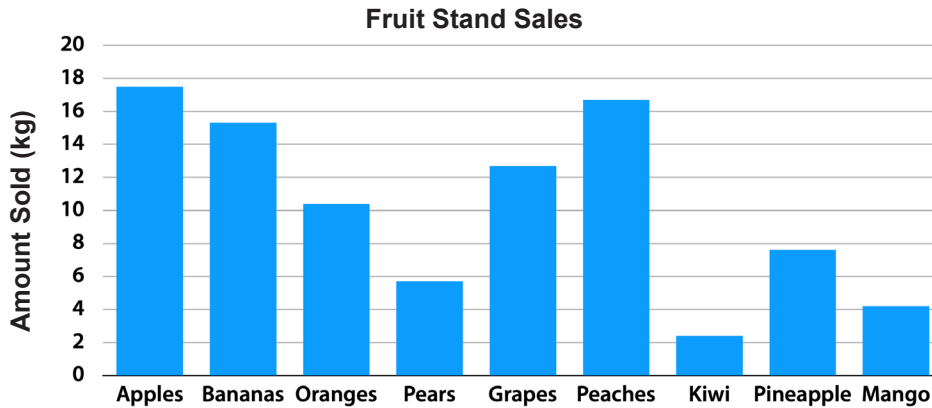
- 1 What year had the highest energy production? 2018
- 2 What year had the lowest energy production? 2015
- 3 What unit of energy is used for this table? MWh
- 4 How much energy was produced in 2017? 955 MWh
- 5 Does this table contain discrete or continuous data? continuous
- 6 What type of graph would you choose to visualize this data? Explain your choice.

Answers will vary. A bar graph or a line graph would each be a good choice for this data. A line graph might make it easier to notice any trends.

Interpreting Graphs - Set 1

DG 2

Instructions: Use the graph to answer the questions below.



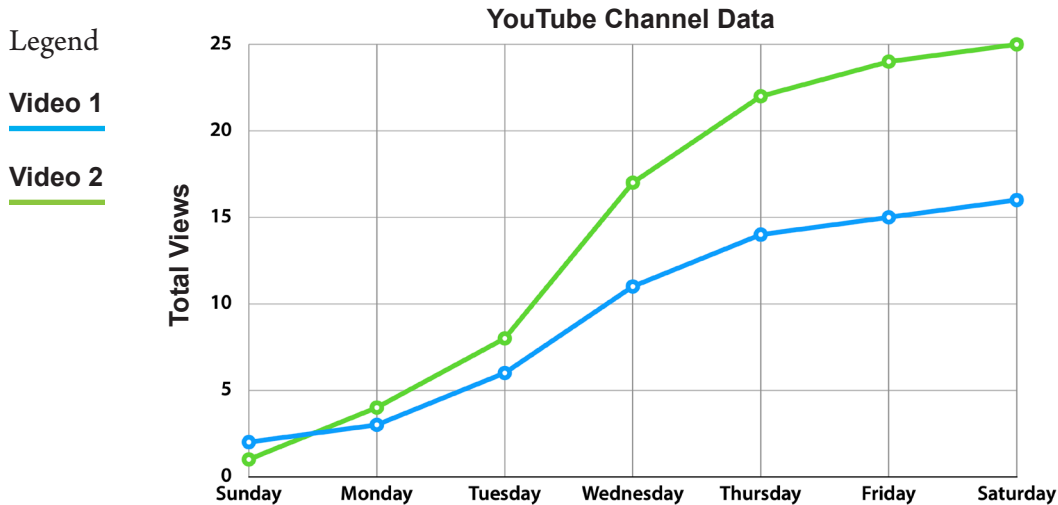
- 1 What unit of measurement is used for the vertical axis? kilograms (kg)
- 2 Describe the scale used on the vertical axis: min. 0 kg max. 20 kg interval 2 kg
- 3 How many different fruits are represented on this graph? 9
- 4 What fruit had the highest sales by weight? apples
- 5 What fruit had the lowest sales by weight? kiwi
- 6 Approximately how many kilograms of mangos were sold? about 4 kg
- 7 What fruit had the 2nd highest sales by weight? peaches
- 8 What fruit had the 2nd lowest sales by weight? mangos
- 9 Approximately how many kilograms of oranges were sold? about 10 kg
- 10 Would a line graph have been a better option for visualizing this data? Explain your answer.

No. The fruit types don't form a natural sequence, so any trend on a line graph wouldn't be meaningful.

Interpreting Graphs - Set 2

DG 3

Instructions: Use the graph to answer the questions below.



- 1 Does the vertical axis reflect discrete or continuous data? discrete
- 2 Describe the scale used on the vertical axis: min. 0 max. 25 interval 5
- 3 What do the numbers on the vertical axis represent? Total Views
- 4 Which video had the highest view count on the first day? Video 1
- 5 Which video had the highest view count by Saturday? Video 2
- 6 How many total views did Video 2 have by Saturday? 25
- 7 How many total views did Video 1 have by Wednesday? 11
- 8 What is the general trend for both videos? views increasing over time
- 9 By Saturday, how many more total views did Video 2 have than Video 1? 9
- 10 Would a bar graph have been a better option for visualizing this data? Explain your answer.

Answers will vary. Not really. A bar graph would be okay, but you'd need to use a double bar graph and that would make it harder to compare the trends over time.

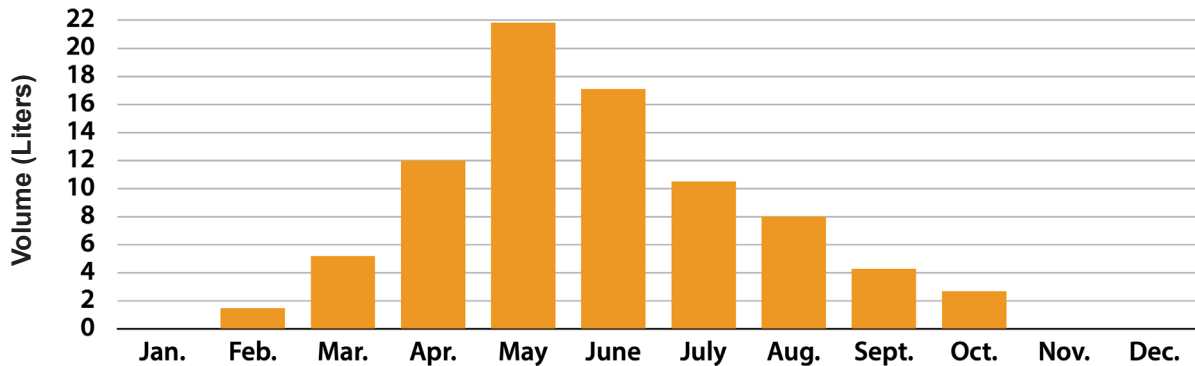
Data & Graphs

DG 4

Instructions: Use the data and graph to answer the questions below.

Honey Collected by Beekeeper

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Volume (Liters)	0	1.5	5.2	12.0	21.8	17.1	10.5	8.0	4.3	2.7	0	0



- Use the graph to fill in the data for the three months missing from the data table.
- Does the vertical axis reflect discrete or continuous data? continuous
- What are the units of measurement for the vertical axis scale? Liters
- Describe the scale used on the vertical axis: min. 0 L max. 22 L interval 2 L
- What was the highest volume of honey collected in a month? 21.8 L
- How many month saw no honey collected? 3
- Use this grid to make a rough line graph of the honey collection data above.

