EPISODE 306

RAISING THE BAR

Watch as the Mobile Unit visits the awesome Chief of Graph at the Odd Squad Graphing Headquarters.

CASE SUMMARY

CASE: Go to Graphing Headquarters to find out how the Mobile Unit can increase its ranking in the Odd Squad Magazine Progress Report.

OUTCOME: We met with the Chief of Graph and together we read bar graphs, created pie graphs, and ate a lot of pie! By creating different graphs, we found out that when we split up the number of hard cases versus the number of easy cases, our unit actually solved the most hard cases compared to all the other units! Graphs are awesome!

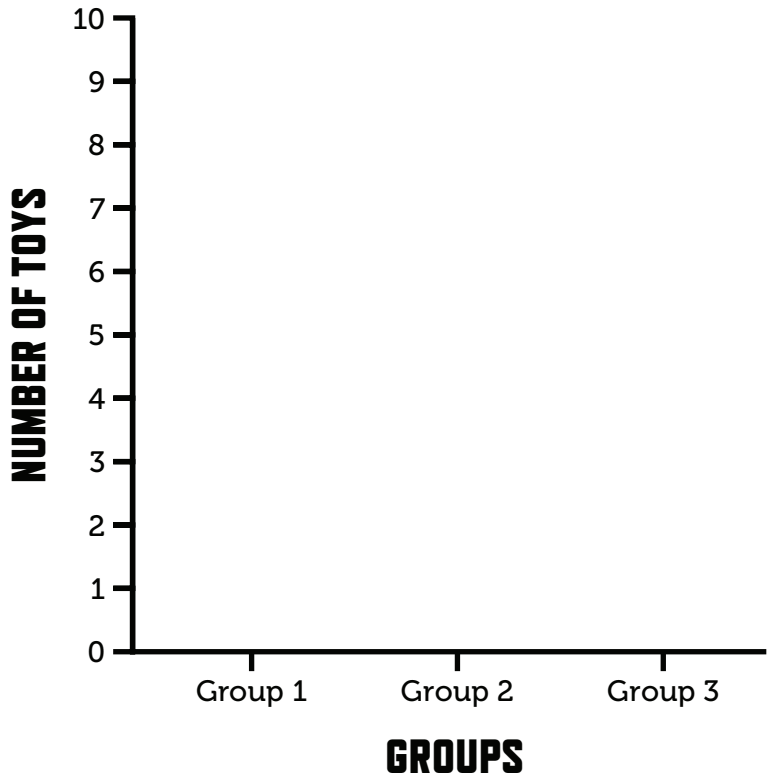
COLD CASE EXTENSION ACTIVITY

Oh no! Something VERY ODD has happened! Pie graphs are turning into dessert pies--apple, blueberry and pumpkin pie, oh my! You must save the information on the pie graphs and stop them from turning into delicious pies! Here is your mission:

1. Find and collect 10 of your favourite toys:
2. Sort the toys into different groups based on their colour. For example, put all your blue toys in one group, all of your green toys in another, and all of your red toys in the last group.
3. Count the number of toys in each group and record it in this chart like this so you don't forget!

GROUPS/COLOUR	HOW MANY?
Group 1	
Group 2	
Group 3	

4. Now, create a graph like this and fill in the bars with the information you collected.



SYNOPSIS FOR TEACHERS/PARENTS:

In *Raising the Bar,* the Mobile Unit gets ranked low on the Odd Squad Magazine progress reports. Omar and Oswald visit the Graphing Headquarters to dig deeper into the results of the report. They read and create different graphs to see how their progress compares to other Odd Squad Precincts.

This episode teaches children about the different types of graphs (e.g., bar graphs, pie charts) and how to read them. It also encourages more complex thinking by showing children how graphs can change when the data/results are split up in different ways.

CURRICULUM EXPECTATIONS:

Grade 2 Mathematics: Data Management and Probability

- Demonstrate an ability to organize objects into categories, by sorting and classifying objects using two attributes simultaneously.
- Collect and organize primary data that is categorical or discrete and display the data using one-to-one correspondence in concrete graphs, pictographs, line plots, simple bar graphs, and other graphic organizers, with appropriate titles and labels and with labels ordered appropriately along horizontal axes, as needed.
- Read primary data presented in concrete graphs and other graphic organizers and describe the data using mathematical language.
- Demonstrate an understanding of data displayed in a graph by comparing different parts of the data and by making statements about the data as a whole.

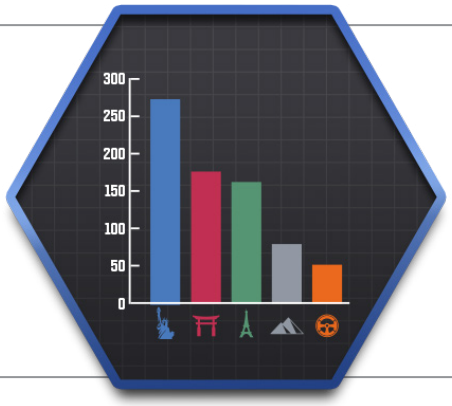
Grade 3 Mathematics: Data Management and Probability

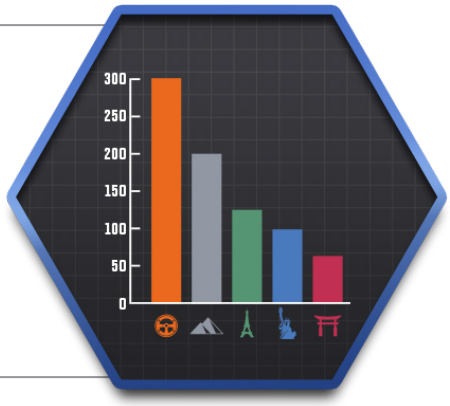
- Demonstrate an ability to organize objects into categories, by sorting and classifying objects using two or more attributes simultaneously.
- Read primary data presented in charts, tables, and graphs, the describe the data using comparative language, and describe the shape of the data.
- Interpret and draw conclusions from data presented in charts, tables, and graphs.

THIS OR THAT!

QUESTION #1

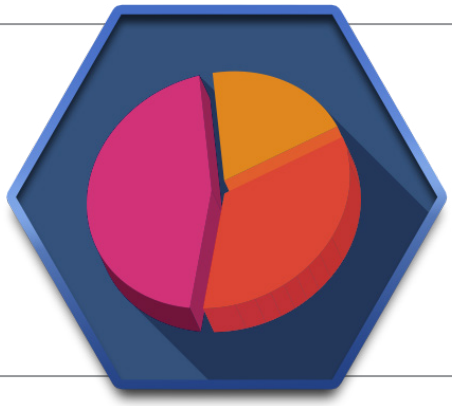
Which bar graph shows that the Mobile Unit solved the most cases?

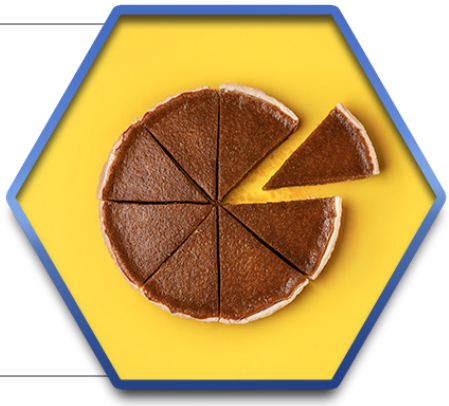




QUESTION #2

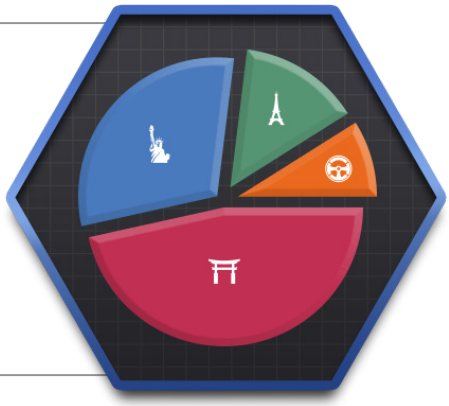
A pie graph is a type of graph that divides a circle into different sections in order to compare different pieces of information. Which of these is a pie graph?





QUESTION #3

Which pie graph shows the Mobile Unit ate the most pies?



1. Image 2. **2.** Image 1. **3.** Image 1.

TRUE OR FALSE

QUESTION #1

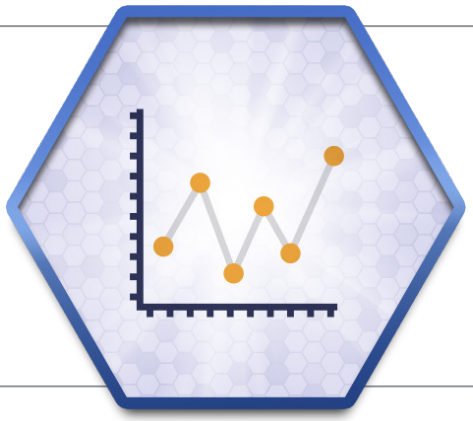
A graph is a visual diagram that can be used to organize different pieces of information.

QUESTION #2

A bar graph has an X-axis, Y-axis and a Z-axis.

QUESTION #3

You can take the numbers from one type of graph and transfer them to create another type of graph.



1. TRUE! Graphs are able to show a lot of information in a simple diagram! **2.** FALSE! A bar graph only has a Y-axis that goes up-and-down, and an X-axis that goes side-to-side. **3.** TRUE! Graphs are useful diagrams that let you look at the same pieces of information in different ways.

COLUMN MATCHING

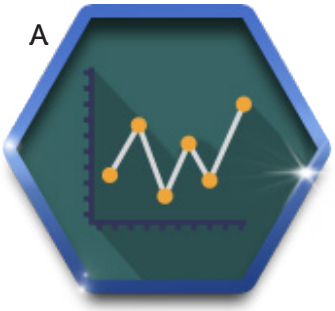
Match the type of graph to the picture!

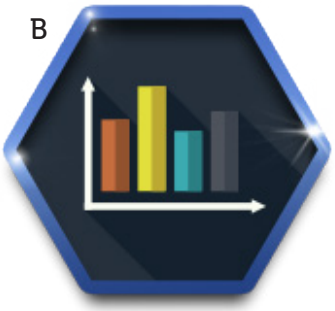
1 BAR GRAPH

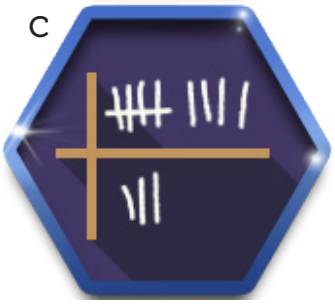
2 TALLY CHART

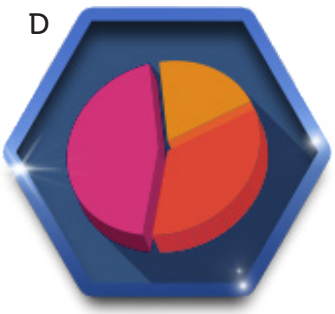
3 PIE GRAPH

4 LINE GRAPH

A 

B 

C 

D 

1.B 2.C 3.D 4.A

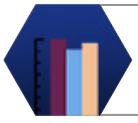
SEARCH AND FIND

Can you find the following?

Odd Squad magazine

Fast moving snail

Pie graph



Bar graph

Big squirrel

Chocolate Sundae