




Who's Like Maddie?

Maddie's Survey - December 2024





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Survey Goals

- To **do something fun to help learn some additional math concepts** using a survey that is meant to measure how **many people like the things that Maddie likes.**
- To compare Maddie to other people – **where is she similar? Where is she different?**





Highlights

Some Key Learnings



Where Maddie Is Like Others...

Animals And Nature

- Puppies
- The Ocean
- Rainbows

Foods

- Pizza
- Chicken
- Ice Cream

Activities & Places

- Going to Restaurant
- Being at Home
- Movies

Where Maddie Is More Unique...

Animals And Nature

- Monkeys
- Leopards
- Snow Tigers!!!

Foods

- Candy
- Ramen Noodles
- Confetti Birthday Cake with Vanilla Buttercream Frosting

Activities & Places

- School
- Climbing
- Gymnastics



Interesting Facts

- In three questions that asked about likes and dislikes, **not 1 person said “none of the above”** which means that **Maddie is like every person** who took the survey in one way or another regarding animals, nature, food, places, and activities.
- And **no option** was at 100% which shows that there weren't any likes that were “universal.”



Details

The Information (Data)



What are Percents (%)

What is a Percent?

A **percent is a way to show a part of something out of 100.**

For example, if you have 100 candies and eat 25, you've eaten 25%. It's like **breaking something into tiny pieces so it's easier to compare.**

How Do You Find a Percent?

To find a percent, **divide the part by the whole, and then multiply by 100.** For example, if 3 out of 10 kids like apples, divide 3 by 10 (that's 0.3), and multiply by 100 to get 30%.

What Does a Percent Tell Us?

Percents help us see **how much of something there is compared to the whole.** They can tell us if something is **small, like 1%, or big, like 90%.** It's kind of like a score!

Why Are Percents Important?

Percents are used everywhere! Stores use them to show discounts, teachers use them to grade tests, and scientists and researchers use them to measure things like conversions (inches to centimeters) or comparing different groups, and more.

How Do Percents Help Us?

They **help us make choices.** If you see a pizza that's 50% off, you know it's half the price! Or if your favorite team wins 80% of their games, you know they're pretty awesome!



An Example

Let's think about this jar of candy. Suppose there were 100 pieces of Candy. And let's say we knew 50 were red, 30 were blue and 20 were yellow. That adds up to 100.

% Red

50 OUT OF 100 are RED. 50 divided by 100 = .5 or half. To get to a percent we multiply this by 100 and that equals 50%.

% Yellow

20 OUT OF 100 are YELLOW. 20 divided by 100 is .2 and if you multiply by 100 you get 20%.

% Blue

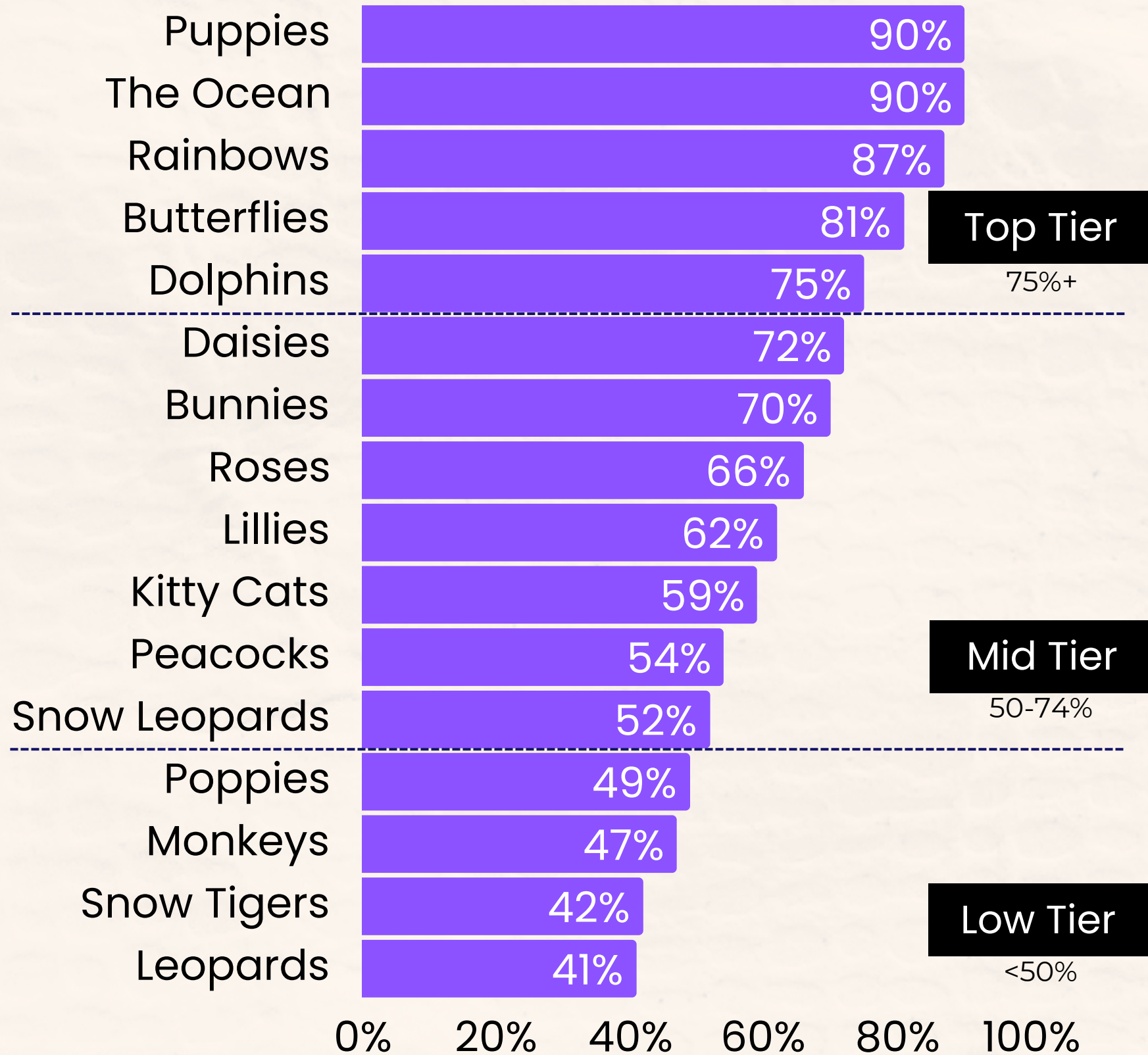
30 OUT OF 100 are BLUE. 30 Divided by 100 = .3. Multiply that by 100 and you get 30%

Challenge

If you eat 10 red candies, that means there are 40 left? What percent of the WHOLE jar are now red?

Answer - $40/90 * 100 = 44\%$

Which of the following animals and items from nature do you like? (Select all that apply) (n=177)



Animals & Nature

- A lot of people like Puppies, The Ocean, Rainbows and Butterflies.
- And not as many people like Monkeys, Leopards, and SNOW TIGERS! Who doesn't like Snow Tigers - that's just silly.

Some Cool Questions/Observations:

- *Daisies are the most liked flowers - why are Roses, Lillies and Poppies less liked?*
- *What's so great about Puppies versus Kitty Cats?*
- *10% of people did NOT select Puppies or The Ocean...*

Foods

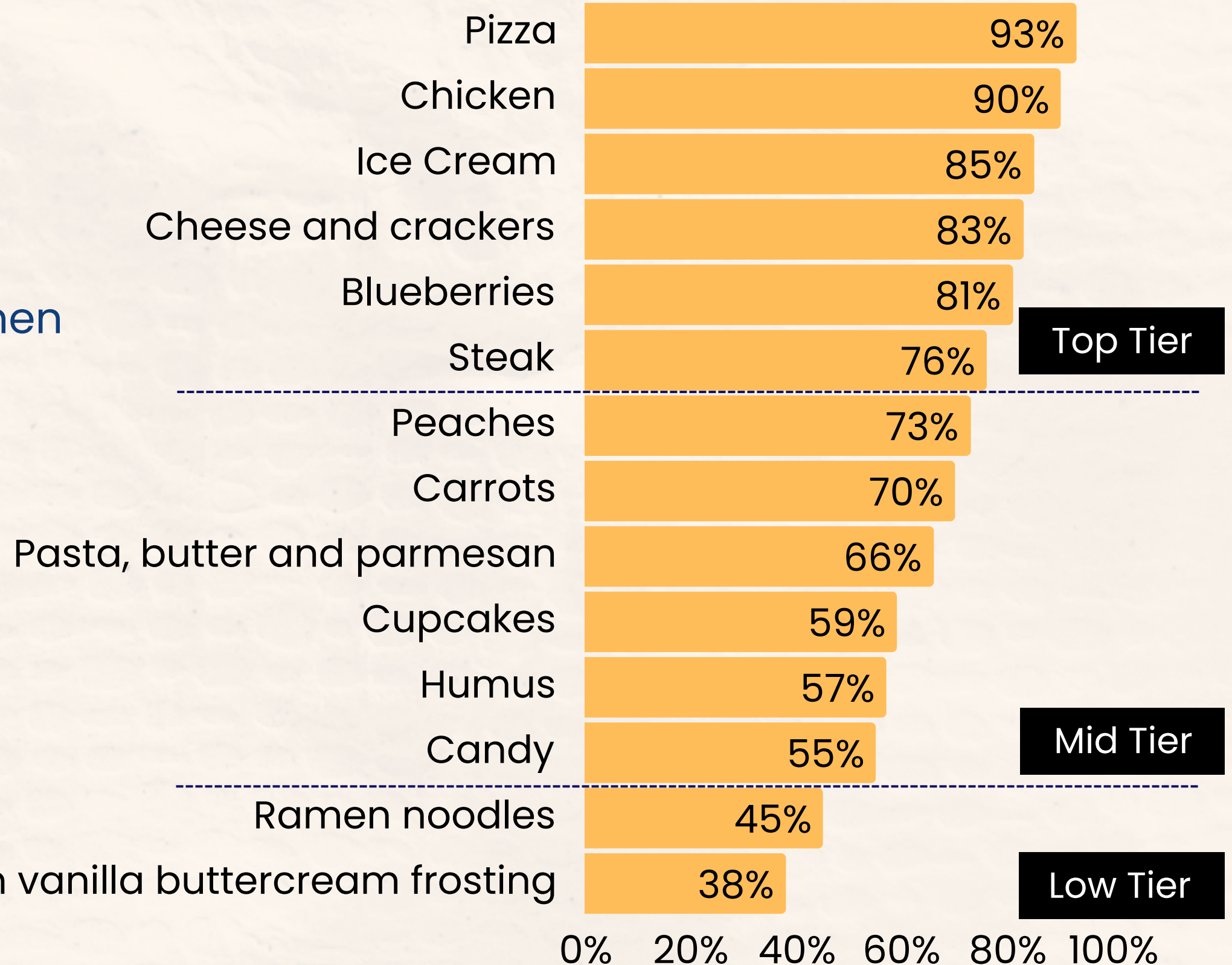
- A lot of people like Pizza, Chicken, Ice Cream, Cheese and Crackers and Blueberries.
- Not as many people like “candy”, Ramen Noodles, and Confetti Birthday Cake with Vanilla Buttercream Frosting.

Some Cool Questions/Observations:

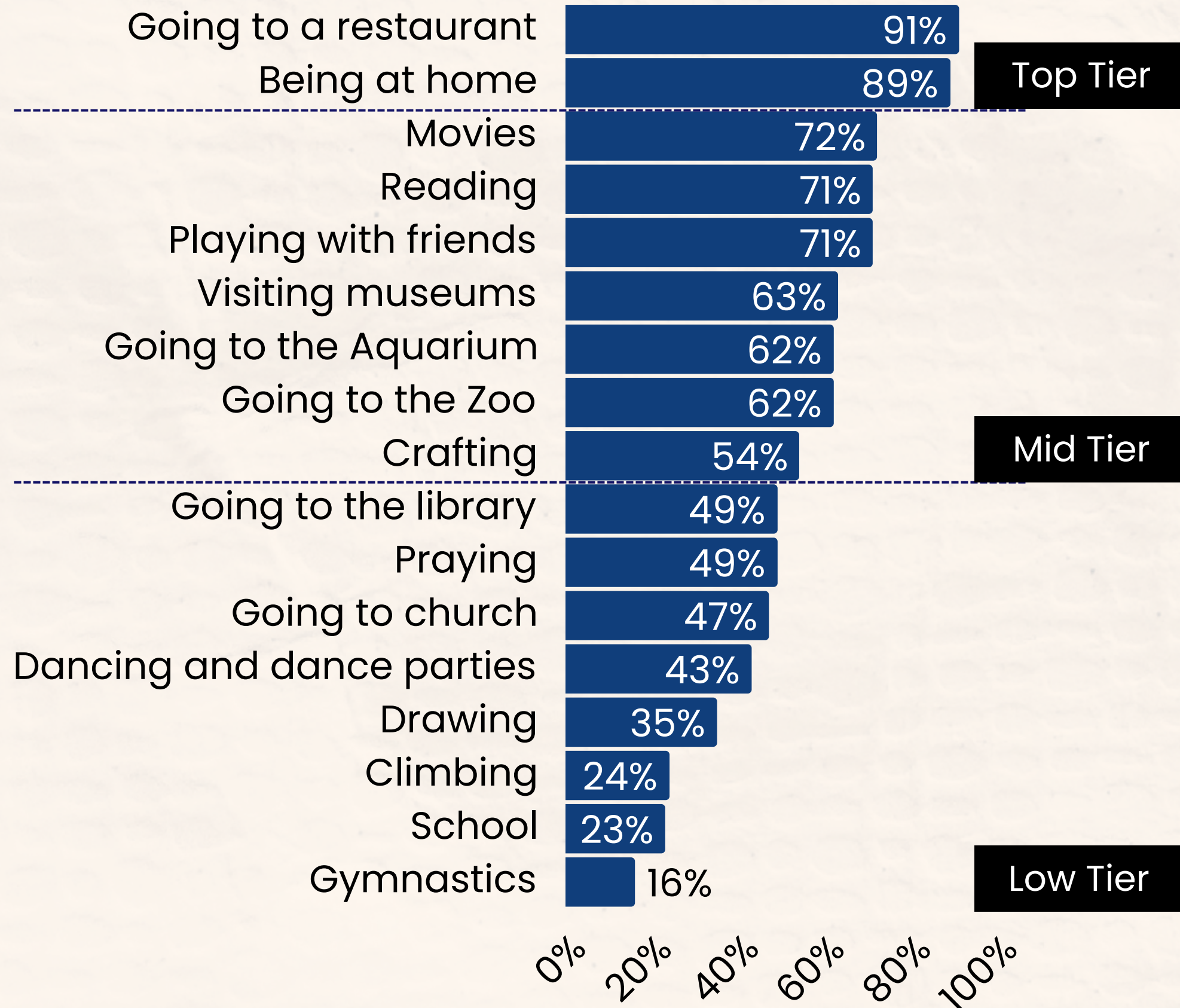
- Why doesn't everyone like Confetti Birthday Cake?
- Really, only 55% like Candy???
- Blueberries – a great snack!

Confetti Birthday cake with vanilla buttercream frosting

2. Which of the following foods do you like? (Select all that apply) (n=177)



Which of the following activities or places do you like? (Select all that apply) (n=177)



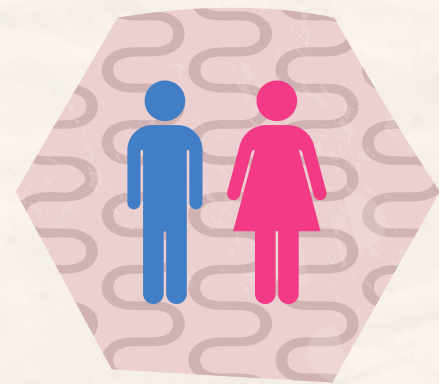
Activities & Interests

- A lot of people like going to Restaurants and Being at Home like Maddie!
- Not as many people like school, Climbing, and Gymnastics – NOT like Maddie.

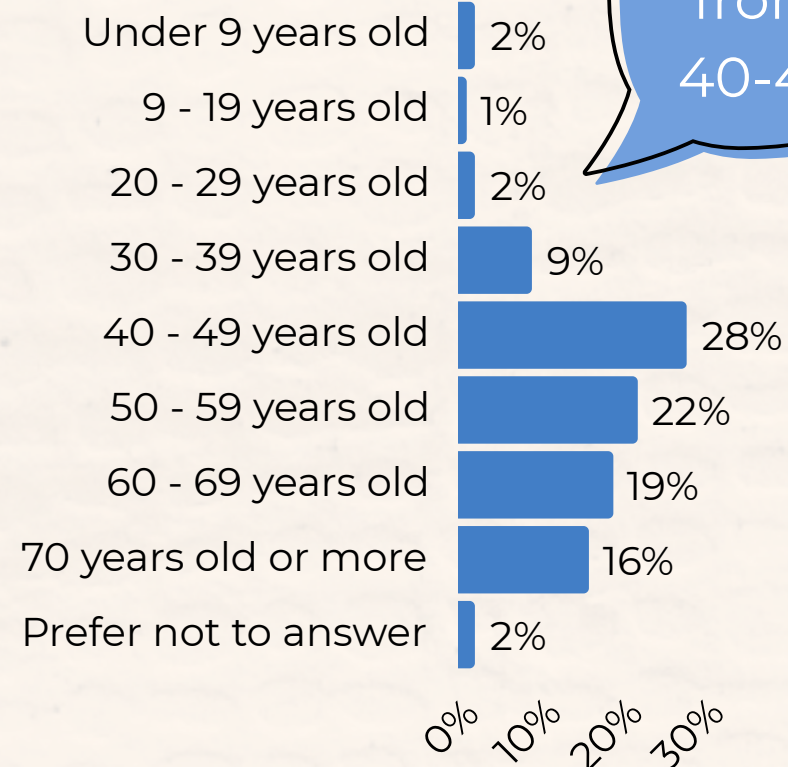
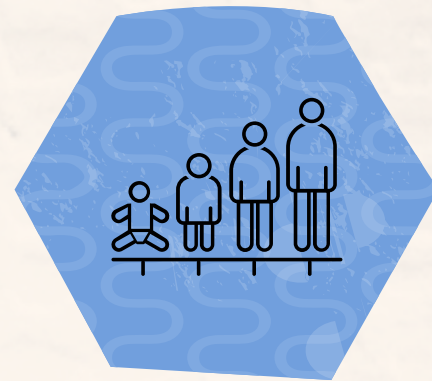
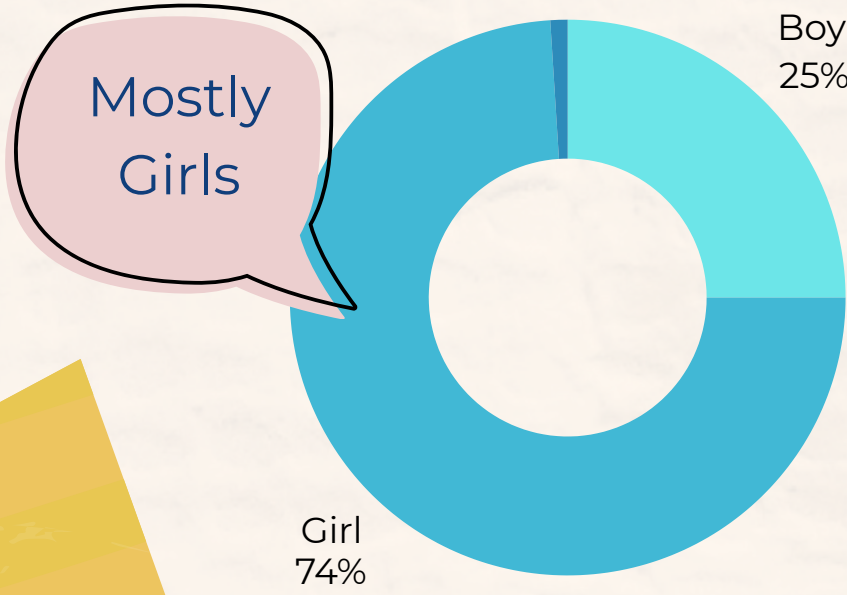
Some Cool Questions/Observations:

- Why is Gymnastics so low when it's one of the top sports in the Olympics?
- Going to church and praying are of appeal to about 50% – half and half.

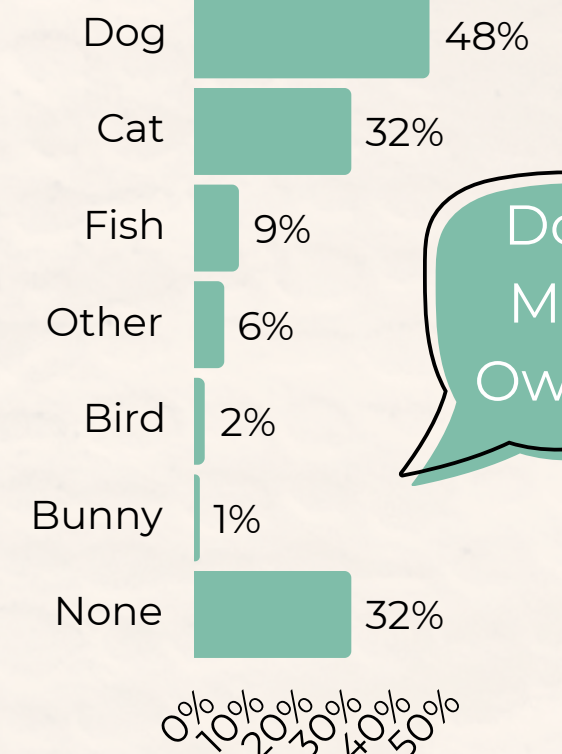
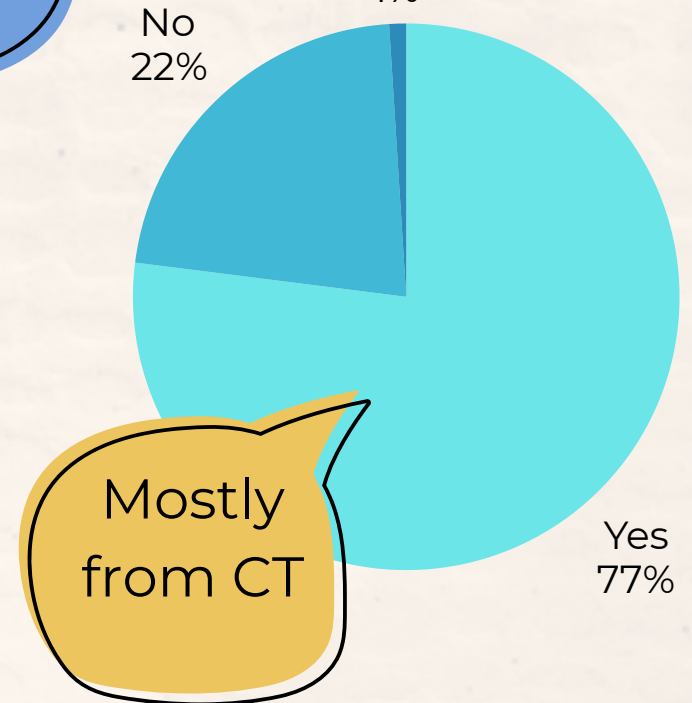
Who Took The Survey?



■ Boy ■ Girl
■ Prefer not to answer
 Prefer not to answer 1%



■ Yes ■ No
■ Prefer not to answer
 Prefer not to answer 1%



How to Apply

- Proportions (percents) like these can help people **understand more about the world**, and they **help people make important decisions**.
- On the next couple of pages you can see some ways to take the information we get in surveys like this one and apply it to the real world so we can understand more about people.



Activities

Info Application

The **UNITED STATES OF AMERICA** has about **350,000,000** people. If this survey had been done to “look like” the US - we could take the percents and apply them like this:

Restaurant

- 91% of people who took the survey **like going to restaurants**
- 350,000,000 Americans
- $350,000,000 \times 91\% =$
318,500,000 people who like going to restaurants

Gymnastics

- 16% of people who took the survey **like gymnastics**
- 350,000,000 Americans
- $350,000,000 \times 16\% =$
56,000,000 Americans like Gymnastics

Some more ways to apply the information:

- Monroe, CT has a population of about 19,000 people - what would those numbers be using Monroe’s population?
- Is there something that interests you that you would want to understand more about before you make a decision?

Other Examples

01

Reviews - how many stars does a product, restaurant, doctor get from people who have sent their feedback. We use these everyday to make better decisions.

02

Measurement - need to measure your height? 4 and $\frac{1}{2}$ feet? Need to measure your weight? 50 and $\frac{1}{2}$ pounds? Is a glass half full?

03

How about contractors (carpenters, plumbers, etc.)? They have to measure things into small or tiny parts. For example, 34 and $\frac{1}{2}$ inches. Or 75 and $\frac{1}{2}$ feet.

Now That You Know?

- What questions do you have that will help you understand the world a bit better?
- What other places can you see percents being used (doctors, baking, etc.)?
- Did you notice anything you thought was surprising about Maddie?



Thank You