

How many times is the fridge door opened in a week?

Have your child estimate the number of times the refrigerator door is opened over 7 days. Ask him to explain how he got the estimate. Talk about what days, if any, the door may be open more or less often. Discuss how to find out how many times the refrigerator door is opened and closed. Then, consider making a chart where family members can record their daily tallies.

Compare the tallies with the estimate. What did you find out?

Name	Mon	Tues	Wed	Thurs	Fri	Sat	Sun
Mom							
Dad							

Is flipping two coins a fair way to make a decision?

Here's a great way to test the fairness of a game:



- Flip two coins. If both coins show heads, or if both coins show tails, your child gets a point. If one coin shows heads and the other tails, you get a point. Flip the coins 50 times. Make a tally chart to log the points.
- Do the same thing again, but switch the way you and your child get points. Is this game fair? Ask your child to explain why or why not.
- If the game is not fair, how can you change it to make it fair? Can you play again with three coins and make it fair for both players?

How many ways can the digits in a telephone number be combined?

Making an ordered list helps with this activity.

- Find all the possible ways to arrange the 7 digits in your phone number. Estimate first how many combinations there might be. Then, record the various combinations. What is a good way to make sure that you are not missing any combination?
- Make this easier by using only the last four digits of your telephone number, or more challenging by adding the area code.



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