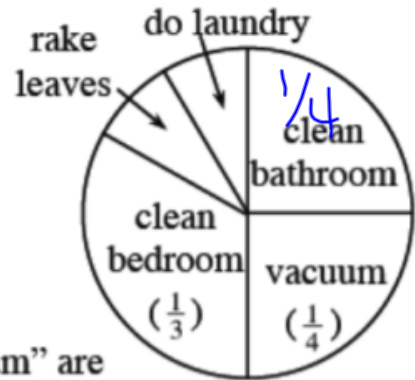


Thomas helps around the house by doing one chore after school. Each day, Thomas and his aunt use the spinner at right to decide which chore he will do. Here is what Thomas knows:

- The sections on the spinner for “rake leaves” and “do laundry” are the same size.
- The sections for “clean bathroom” and “vacuum” are equal in size and together make up half the spinner.



a. What is the probability that Thomas will spin “do laundry”?

$$\boxed{\frac{2}{2}} \frac{1}{3} + \text{Rake Leaves} + \text{Do Laundry} = \frac{1}{2} \boxed{\frac{3}{3}}$$

$$\frac{2}{6} + \text{Rake Leaves} + \text{Do Laundry} = \frac{3}{6}$$

$\frac{1}{6}$ together

What is half of $\frac{1}{6}$? $\left(\frac{1}{12}\right)$ ← Do laundry

Thomas hates to clean the bathroom. When he spins the spinner, what is the probability that it will not point to "clean bathroom"? Explain how you found your answer.

1 whole - $\frac{1}{4}$ = $\frac{3}{4}$

not clean bathroom

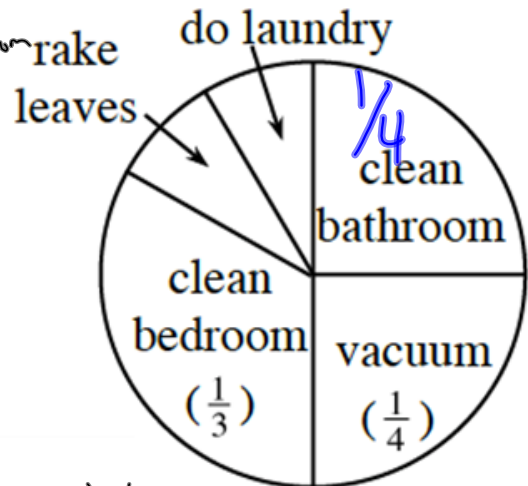
or

Rake + Do + Clean
Leaves Laundry Bedroom + Vacuum

$$\frac{1}{12} + \frac{1}{12} + \frac{4}{4} \frac{1}{3} + \frac{1}{4} \frac{3}{3}$$

$$\frac{1}{12} + \frac{1}{12} + \frac{4}{12} + \frac{3}{12}$$

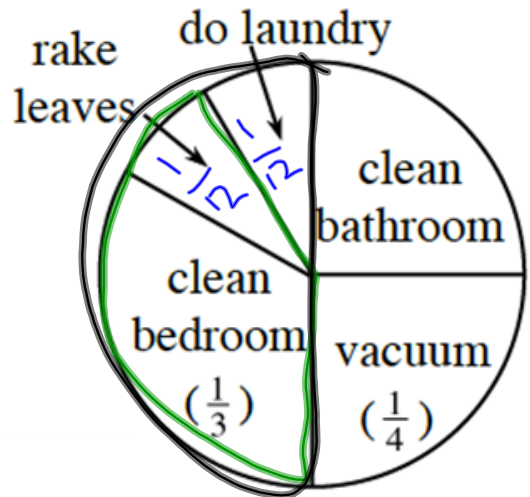
$$\frac{9}{12} = \frac{3}{4}$$



Thomas's aunt hopes that he will *either* spin "clean bedroom" or "rake leaves" today.

a. What is $P(\text{clean bedroom})$? What is $P(\text{rake leaves})$?

b. What is the probability he will spin either one of those chores?

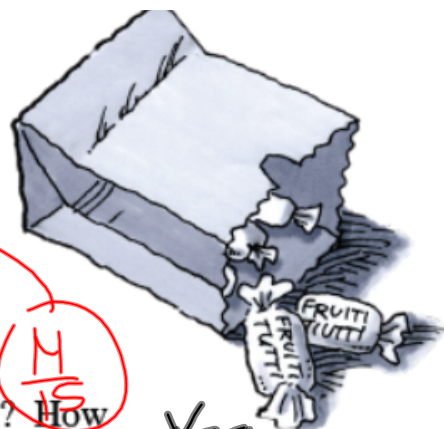


Clean bedroom
or
Rake leaves

$$\frac{4}{12} + \frac{1}{12} = \frac{5}{12}$$

$$\frac{1}{2} - \frac{1}{12} = \frac{6}{12} - \frac{1}{12} = \frac{5}{12}$$

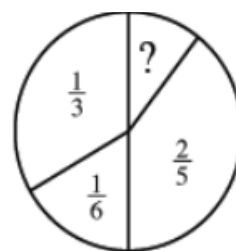
Lindsay has a paper bag full of Fruiti Tutti Chews in three different fruit flavors. She says, "If you reach into the bag, you have a $\frac{1}{3}$ chance of pulling out a Killer Kiwi. There is a $\frac{3}{5}$ chance that you will get Crazy Coconut."



- a. If you reach into the bag, what is $\frac{5}{5} \frac{1}{3} + \frac{3}{15} \frac{3}{5} = \frac{4}{5}$ P(coconut or kiwi)?
- b. Does there have to be another flavor in the bag? How can you tell? If so, assuming that there is only one other flavor, what is the probability of getting that flavor? $\frac{1}{5}$ chance
- c. How many candies might Lindsay have in the bag? Is there more than one possibility? Assume that all candies in the bag are whole candies.

15 30 45 60
 30,000,000
 any multiple of 15

- 1-133. Louise is playing a game, but the spinner is incomplete. Each section of the spinner is labeled with the probability of spinning it. What fraction is missing?



$$\begin{array}{r}
 \boxed{\frac{30}{30}} \quad | \quad - \quad \frac{1}{3} \boxed{\frac{10}{10}} - \frac{1}{6} \boxed{\frac{5}{5}} - \frac{2}{5} \boxed{\frac{6}{6}} \\
 \frac{30}{30} - \frac{10}{30} - \frac{5}{30} - \frac{12}{30} \\
 \frac{30}{30} - \frac{27}{30} \\
 \frac{3}{30} = \left(\frac{1}{10} \right)
 \end{array}$$

$\frac{12}{27} = \frac{10}{10}$