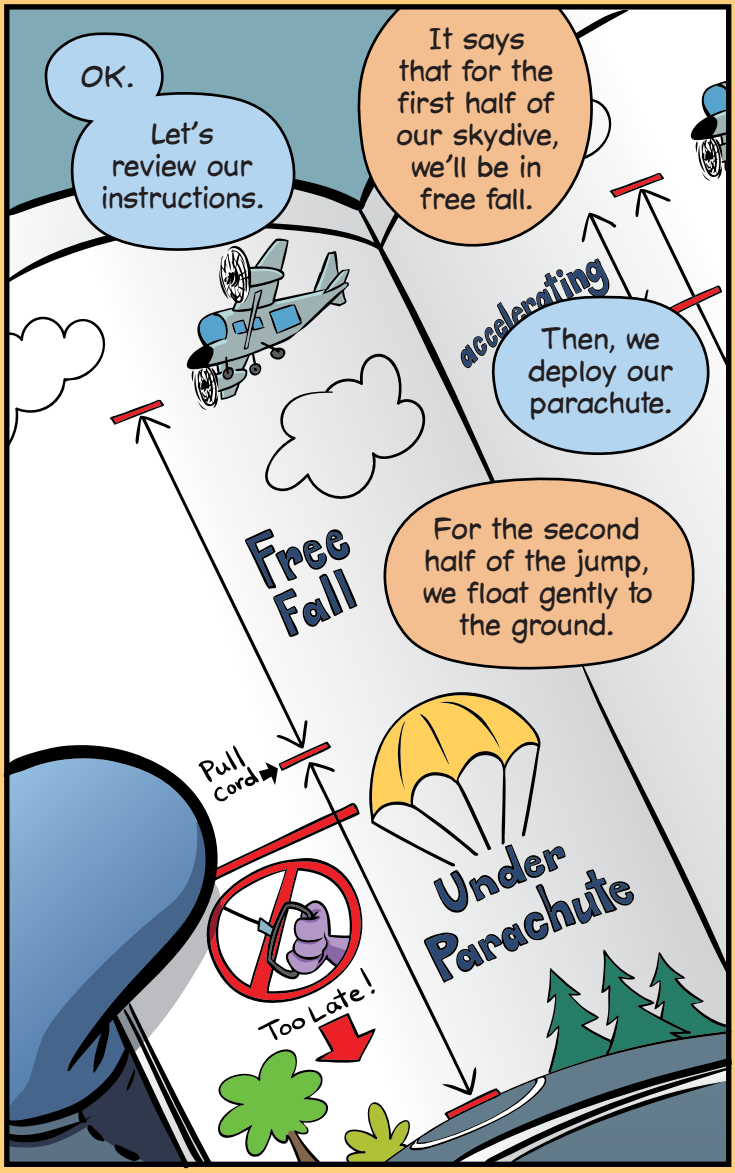
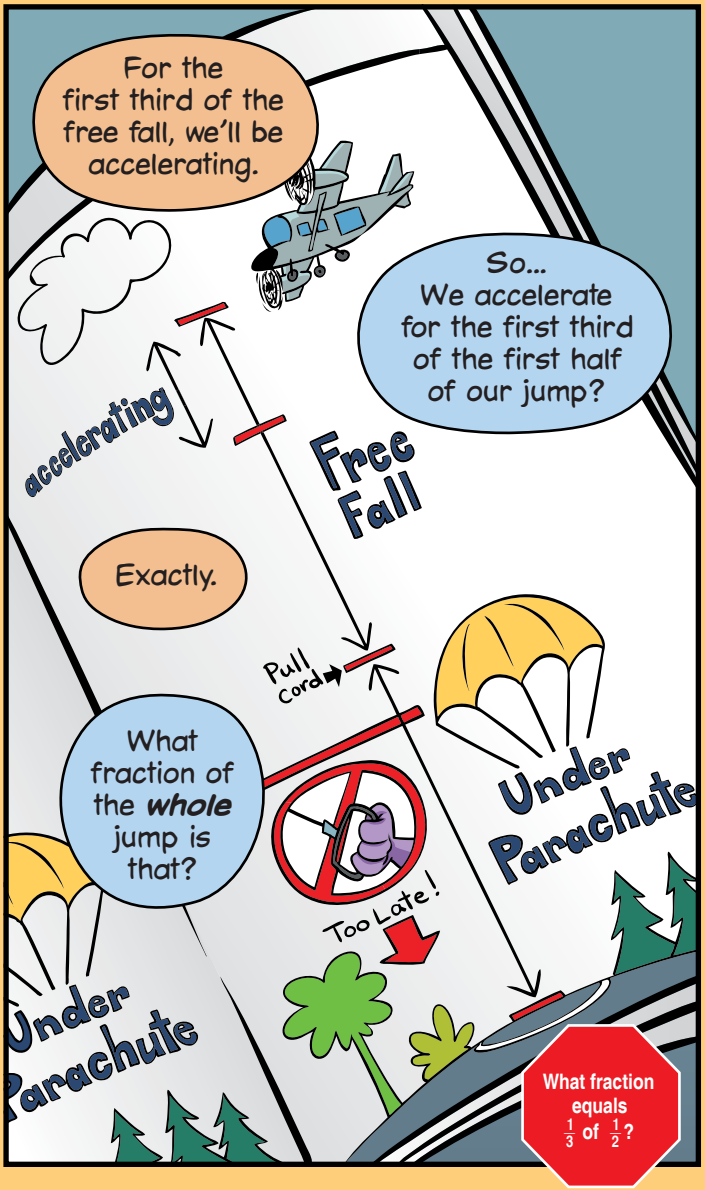
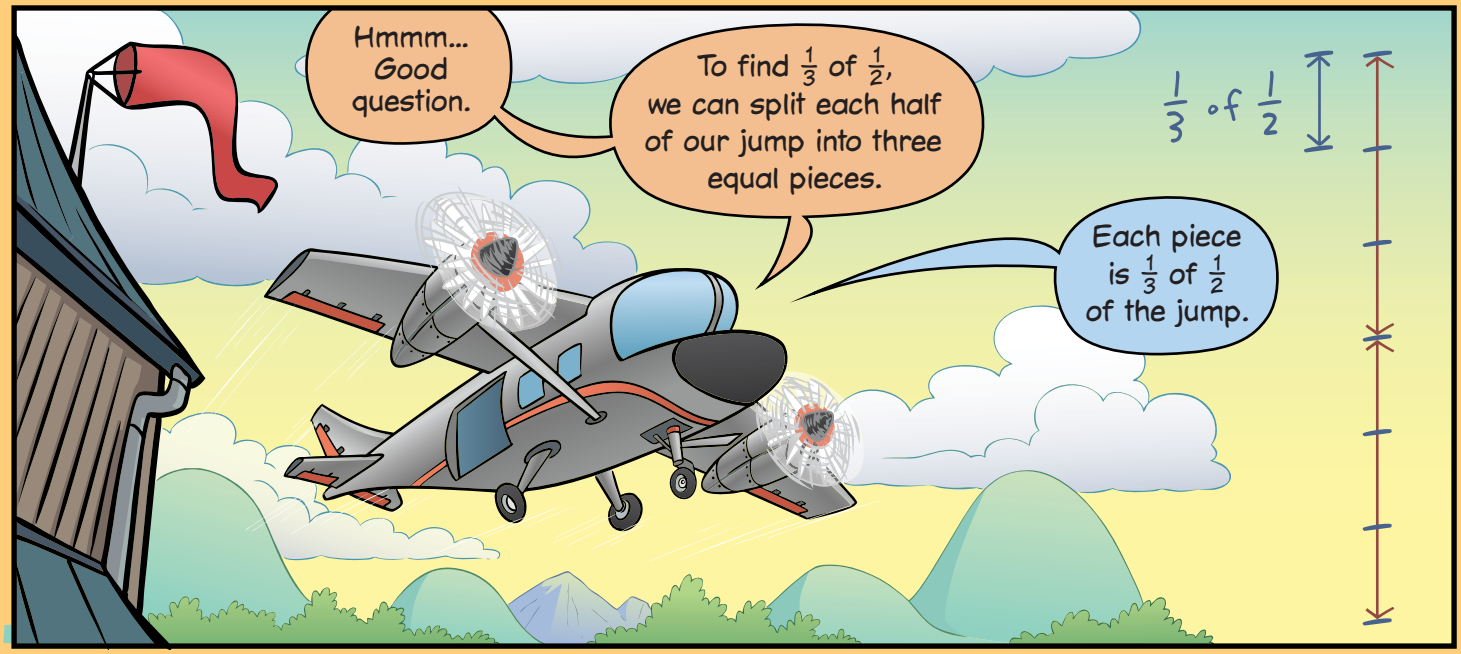
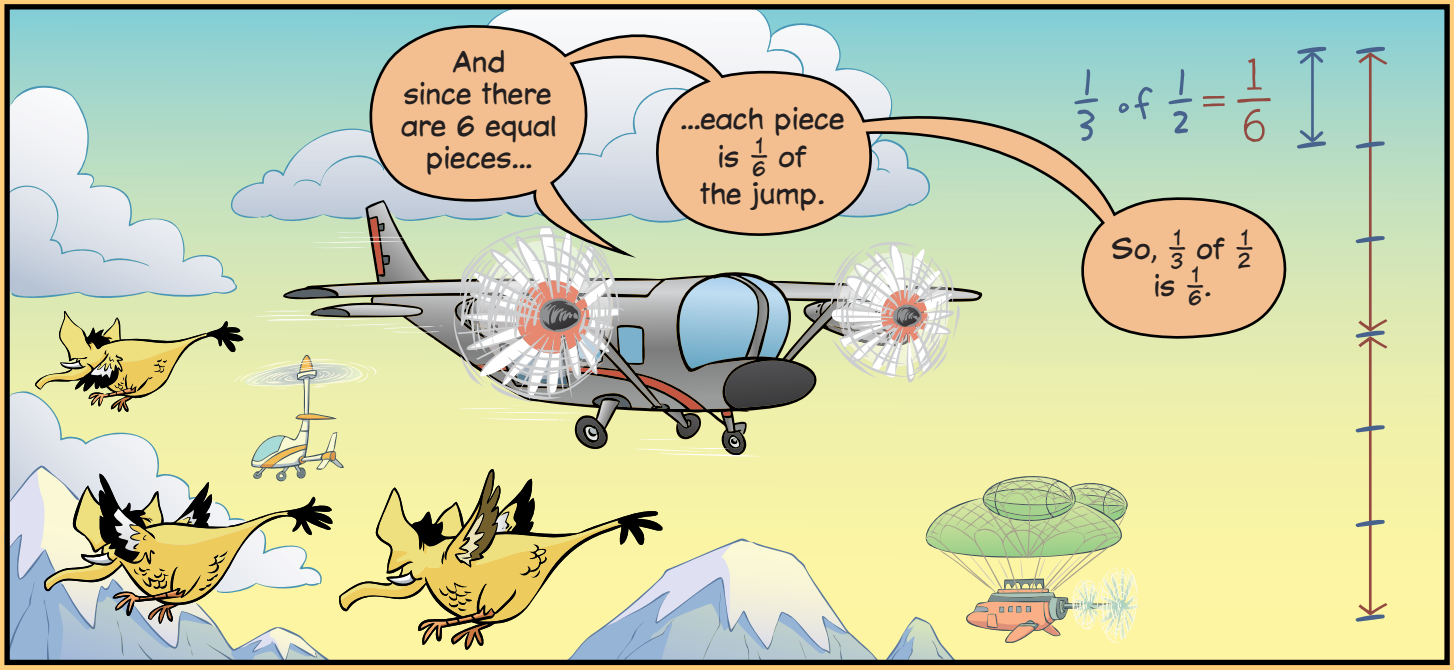
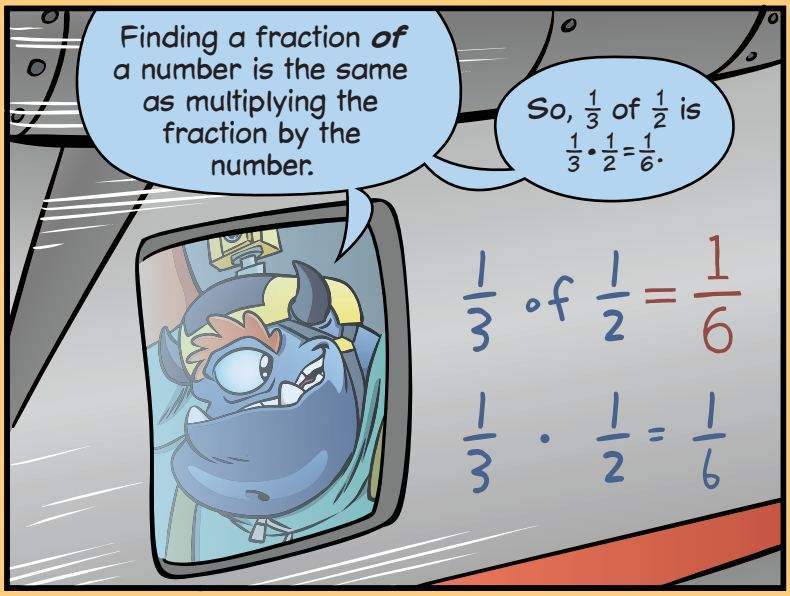




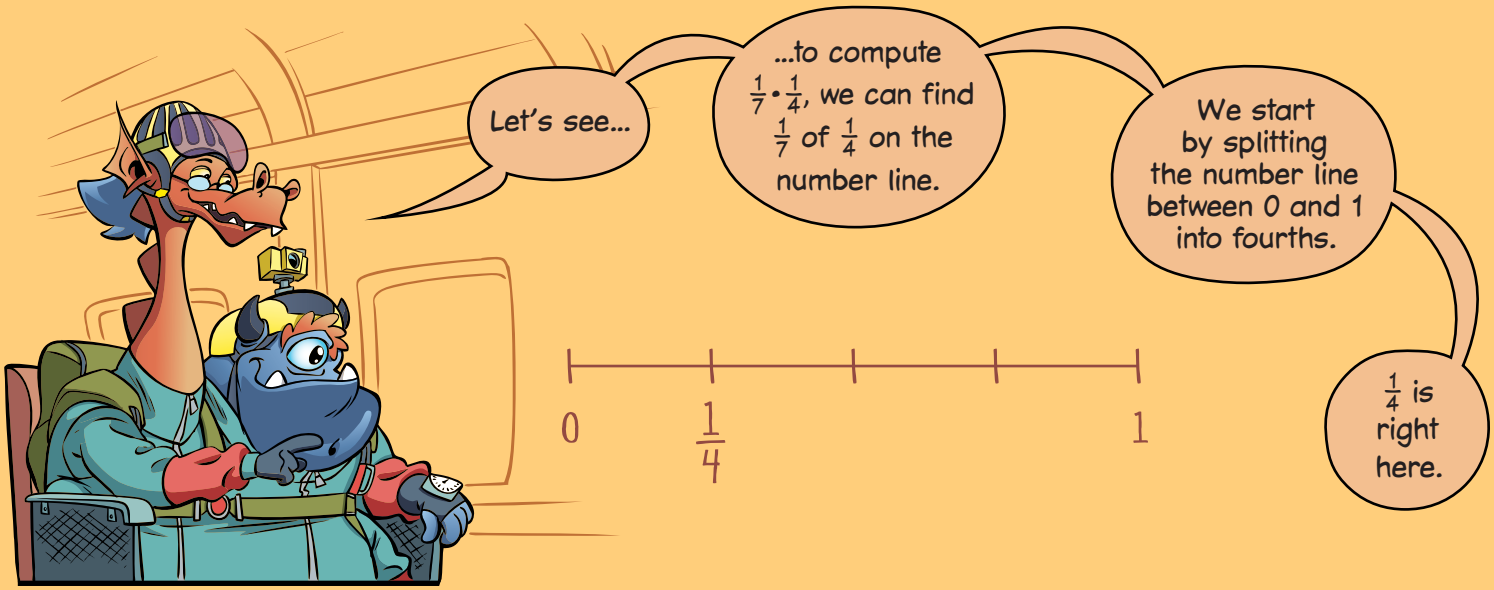
What fraction equals $\frac{1}{3}$ of $\frac{1}{2}$?

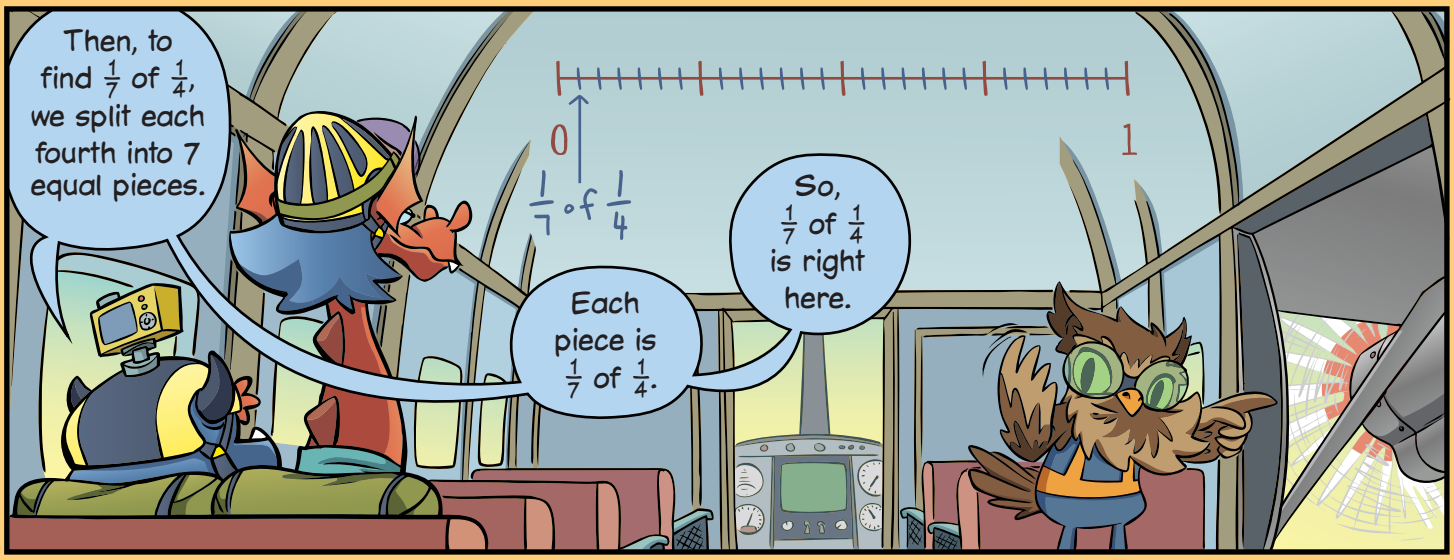

Hmmm... Good question.
To find $\frac{1}{3}$ of $\frac{1}{2}$, we can split each half of our jump into three equal pieces.
Each piece is $\frac{1}{3}$ of $\frac{1}{2}$ of the jump.
$\frac{1}{3}$ of $\frac{1}{2}$

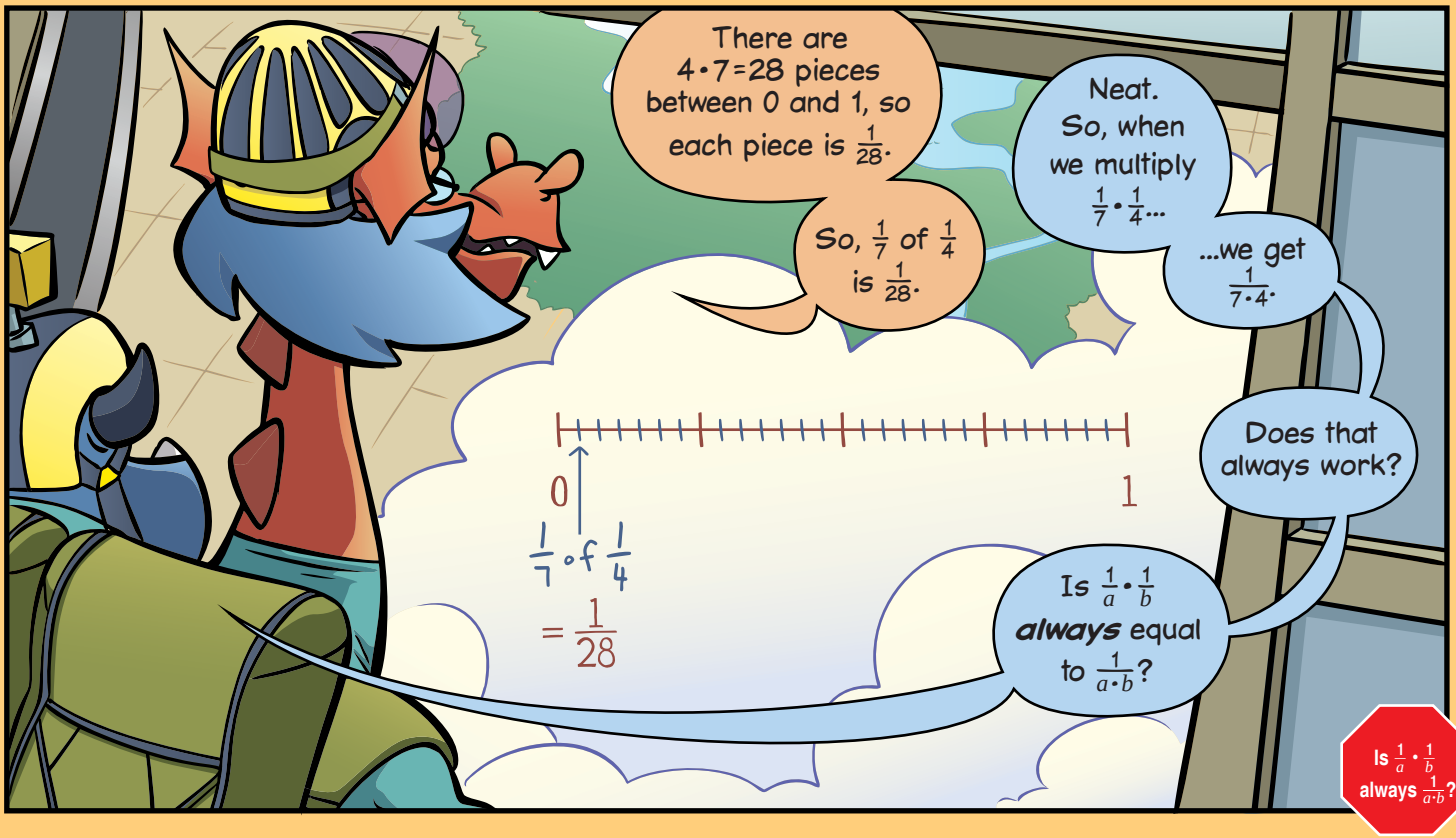

And since there are 6 equal pieces...
...each piece is $\frac{1}{6}$ of the jump.
So, $\frac{1}{3}$ of $\frac{1}{2}$ is $\frac{1}{6}$.
$\frac{1}{3}$ of $\frac{1}{2} = \frac{1}{6}$


Finding a fraction *of* a number is the same as multiplying the fraction by the number.
So, $\frac{1}{3}$ of $\frac{1}{2}$ is $\frac{1}{3} \cdot \frac{1}{2} = \frac{1}{6}$.
$\frac{1}{3}$ of $\frac{1}{2} = \frac{1}{6}$
$\frac{1}{3} \cdot \frac{1}{2} = \frac{1}{6}$

We've never multiplied two fractions before! Let's try again. What's $\frac{1}{7} \cdot \frac{1}{4}$?
$\frac{1}{7} \cdot \frac{1}{4}$







Is $\frac{1}{a} \cdot \frac{1}{b}$ always $\frac{1}{a \cdot b}$?

Let's see...
...when we multiply $\frac{1}{7} \cdot \frac{1}{4}$, we split the number line between 0 and 1 into 4 equal pieces.
Then, we split each of the 4 pieces into 7 equal pieces.
When we multiply $\frac{1}{a} \cdot \frac{1}{b}$, we split the number line between 0 and 1 into b equal pieces.
Then, each of those b pieces gets split into a equal pieces.
Right, so we end up with $a \cdot b$ equal pieces between 0 and 1.
So, each piece is $\frac{1}{a \cdot b}$.
$\frac{1}{a} \cdot \frac{1}{b}$ is $\frac{1}{a \cdot b}$!
Good job! Now, JUMP!
Geronimo!