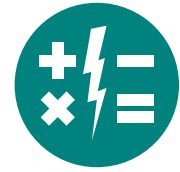




## Myth: Some students are “right-brain” learners while other students are “left-brain” learners.



As you probably know, the brain is divided into two hemispheres: the right and the left. Some categorize people by their preferred or dominant mode of thinking. “Right-brain” thinkers are considered to be more intuitive, creative, and imaginative. “Left-brain” thinkers are said to be more logical, verbal, and mathematical.

The brain can also be broken down into lobes. The *occipital lobe* can be found in back of the brain, and it is responsible for processing visual information. The *temporal lobes*, which sit above your ears, process language and sensory information. The band across the top of your head is the *parietal lobe*, and it controls movement. Finally, the *frontal lobe* is where planning and learning occurs. Another way to think about the brain is from the back to the front, where information goes from highly concrete to abstract.

Why don’t we claim that some people are “back of the brain” thinkers, who are highly concrete; whereas, others are “frontal” thinkers, who are more abstract? The reason is that the brain is a highly interconnected organ. Each lobe hands off information to be processed by other lobes, and they are constantly talking to each other. All of us are *whole-brain* thinkers!

### #mathmythbusted

## Talking Points

### Discuss With Your Student

Your student is learning to understand and be fluent with decimals and decimal operations. You can further support your student’s learning by asking questions about the work they do in class or at home.

### Questions to Ask

- How does this problem look like something you did in class?
- Can you show me the strategy you used to solve this problem? Do you know another way to solve it?
- Does your answer make sense? How do you know?
- Is there anything you don’t understand? How can you use today’s lesson to help?

## Key Terms

### repeating decimal

A repeating decimal, like 0.333... or 2.848484..., has digits (other than 0) after the decimal point that repeat in a pattern forever. A bar can be written over the repeating digits:  $0.\overline{84}$ .

### terminating decimal

A terminating decimal, like 0.5 or 1.632589, has a limited number of digits after the decimal point. Or, the digits are all zeros: 0.500000....