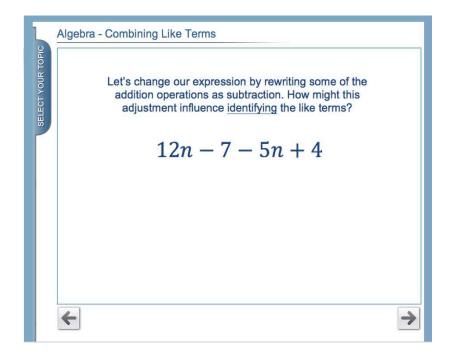




Reading in Mathematics

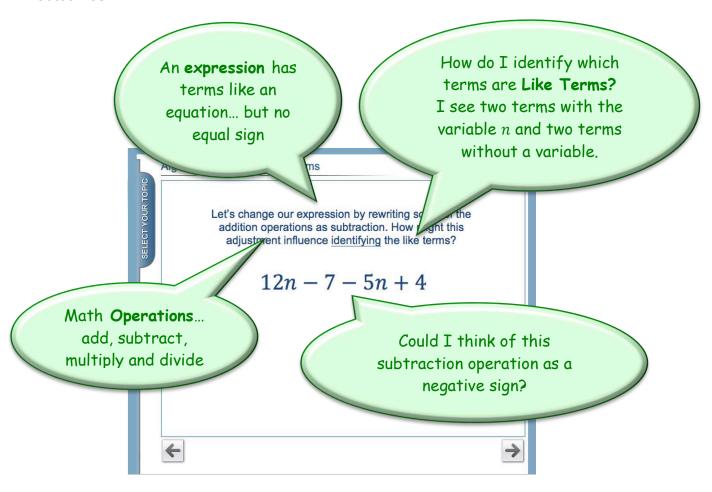
Having the confidence to *do math* means students must develop their ability to analyse, interpret and summarize information. In math, this information is a combination of words, numbers and symbols. Students make sense of this information by making connections to what they already know and what they have previously experienced.

The Get It Guide™ Math Tutorials use effective questions to help students focus and elaborate on their thinking as they work through a math problem.



When we ask a question we are also eliciting a response. Ranging somewhere between *I get it* to *I don't get it*, a student's response provides important self-assessment information. What do *I already know that will help me solve? What are the steps in my solution path I understand and feel confident performing? Which solution steps should I ask my teacher for help with?*

Responding to a question requires students listen to their inner voice as they attempt to make sense of the information they are reading. Listening to their inner voice will help students activate prior knowledge and **connect** the text to previous experiences. As students think about their response to a question they can practice and develop their ability to **infer** and **predict** mathematical outcomes.



- Prompt students to take an appropriate amount of wait-time in responding to a question.
- Encourage students to...
 - Avoid saying, "I don't get it" as an automatic response
 - Read and re-read a tutorial question to determine the information relevant to their existing knowledge
 - Paraphrase the tutorial question
 - Turn their inner voice into thinking-aloud
 - o Articulate their response to the question
 - Be precise as they explain calculations and strategies for solving
 - Not worry about making an error

Think-aloud strategies help students reflect and shape their understanding of a math problem. When teachers model think aloud strategies during classroom instruction they make their thinking transparent for students.

The Get It Guide™ Math Tutorials use callouts to model the thinking process of a teacher or fellow student working through their solution path. Students can gain further practice analysing, interpreting and summarizing the text presented in each callout think aloud. They can also use the callout think aloud responses to **compare**, **justify** and **reflect** on their approach for solving.

