

Thinking Goals for Each and Every Student: Quantitative Reasoning

- I can identify quantities and relationships in problem situations.
- Look for quantities and relationships that are implied in problem situations.
- Learn to ask yourself, *What can I count?* and *What can I measure?* to identify quantities in a problem.
- I can create a diagram that shows how quantities are related.
- I can use a diagram to surface hidden relationships in the problem.
- I can describe relationships between quantities in multiple ways.

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Thinking Goals for Each and Every Student: Structural Thinking

- Think like a mathematician: Chunk complicated algebraic expressions into pieces that you can interpret.
- Effective math does change the form of an irregular shape to make it easier to work with.
- Students will be able to connect numeric expressions to visuals by considering the rules of operations.
- Think like a mathematician: Learn to change the form of a numeric expression in order to calculate more quickly.
- Effective math does think about how rewriting an algebraic equation might give them insight into how a function is behaving.

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Thinking Goals for Each and Every Student: Repeated Reasoning

- Think like a mathematician: Learn to ask yourself, *Do I keep doing the same thing over and over again?*
- Look for regularity in the way you are counting, calculating, and constructing.
- Think like a mathematician: Find the process behind the results you are getting.
- Effective math doers record their counting, calculating, and constructing processes so that they can identify regularities in their process.
- I can look for and use repetition in my thinking to help me create a general mathematical statement.