

## IMAST Mathematics Sample Items (Grades 6-8)

(Beginning in Spring 2010)

The purpose of this Item Sampler is to provide examples of the types of questions that will appear on the mathematics portions of IMAST beginning in the spring of 2010. Each grade-level mathematics IMAST assessment will consist of multiple-choice items *only*.

This Item Sampler displays assessment items in both an ISTEP+ format and an IMAST format. In creating IMAST, modifications were made to assessment items with the intent of maintaining grade-level standard alignment while providing more accessibility for students.

### Important IMAST Mathematics Information:

- All questions are multiple-choice. There are **no** Gridded-Response or Constructed-Response questions.
- Students are not required to have a copy of the Reference Sheet during testing. Formulas and/or conversions needed to respond to test questions will be embedded within the question.
- Students are allowed to use calculators on both sessions.

### Possible item modifications in mathematics are listed below:

- Simplifying text
- Bolding key words
- Increasing white space
- Reducing the length of text
- Simplifying answer choices
- Eliminating least plausible answer choices
- Using simple numbers to assess skills and concepts
- Using bullet points to organize and highlight information
- Embedding formulas and conversions within test questions
- Putting a box around the embedded formulas and conversions to highlight the information
- Using visuals to help clarify and/or provide supporting information about test questions

Example 1: ISTEP+ Grade 6 Item	IMAST Version
Tony ate dinner at a restaurant. His meal cost \$14.65, including tax. How much TOTAL will Tony pay for his dinner if he leaves an 18% tip?  A. \$2.64 B. \$14.83 C. \$17.29 D. \$32.65	Tim's meal cost \$15.00.  How much <b>total</b> will Tim pay for his meal if he leaves a 10% tip?  A. \$1.50 B. \$16.50 C. \$25.00  <b>Modifications:</b> Simplify and reduce text, reduce answer choices, use simpler numbers, increase white space

Example 2: ISTEP+ Grade 7 Item	IMAST Version
Last year, Kim earned \$8 per hour at her job. This year, Kim earned \$10 per hour at her job. What is the percent of increase Kim earned in dollars per hour from last year to this year?  A. 2% B. 10% C. 20% D. 25%	<ul style="list-style-type: none"><li>• In April, Kim earned \$500.</li><li>• In May, she earned \$700.</li></ul> What is the percent of increase Kim earned from April to May?  A. 2% B. 4% C. 20% D. 40%  <b>Modifications:</b> Simplify and reduce text, bullet point key information, increase white space

