

**SKILLS LIST and SAMPLE ITEMS FOR**  
**PRACTICE TEST, MATHEMATICS, GRADE 8**  
(Test items developed for skills measured in FCAT)

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*Skills*

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|-----|--|-----|--|
| 1.0 | Numbers Sense, Concepts, and Operations                                    | 4.0 | Algebraic Thinking                                 |
| 1.1 | How Numbers are Used in the Real World                                     | 4.1 | Patterns/Relations/Functions                       |
| 1.2 | Number Systems   | 4.2 | Expressions/Equations/Inequalities/Graphs/Formulas |
| 1.3 | Operations on Numbers and their Relationships                              | 5.0 | Data Analysis and Probability                      |
| 2.0 | Measurement  | 5.1 | Tools for Managing Information                     |
| 2.1 | Measures Quantities/Solves Problems  | 5.2 | Identify Patterns/Make Predictions                 |
| 2.2 | Comparing/Contrasts/Converts   | 5.3 | Statistical Methods                                |
| 3.0 | Geometry   |     |  |
| 3.1 | Two - and Three-Dimensional Shapes   |     |  |
| 3.2 | Shapes   |     |  |
| 3.3 | Locate Objects in two and three dimensions; Describe Objects Algebraically |     |  |

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Number of questions: 46  
Number of pages: 12

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## FCAT PRACTICE TEST IN MATHEMATICS - GRADE 8

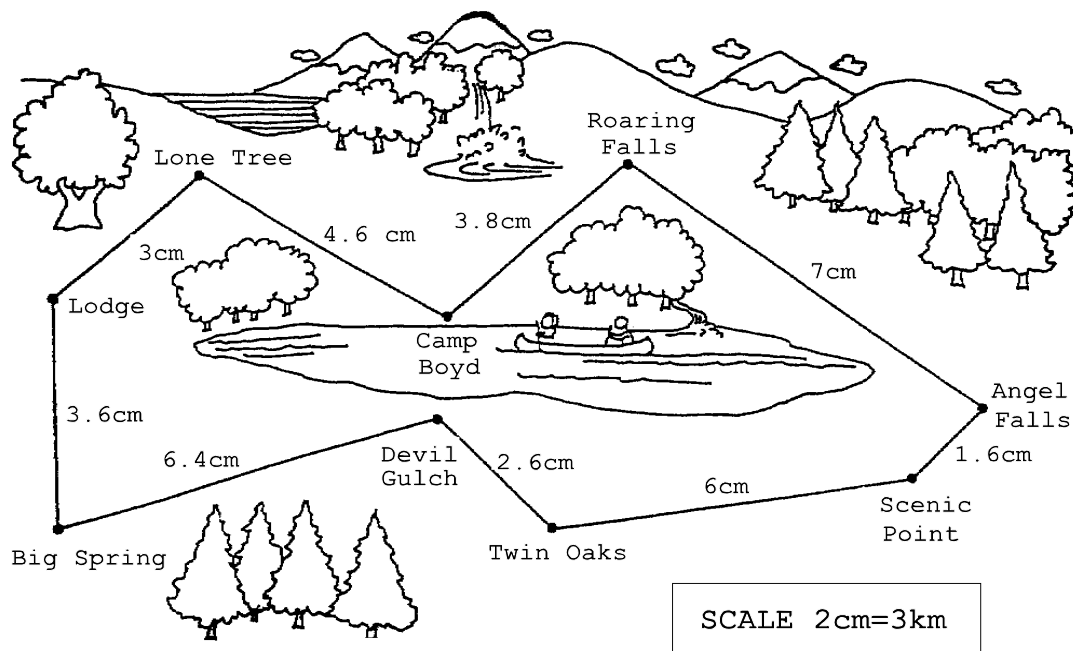
1. Which of the numbers below means the same as

$$500 + 4.8 + 0.04$$

- A. 504.8                      B. 548                      C. 504.84                      D. 540.8
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2. Angela is in charge of buying ribbons for a track meet. She must determine the appropriate number of 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> place ribbons to buy. There will be eight events with 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> place winners and twelve events with 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> place. Three events will have only a 1<sup>st</sup> and 2<sup>nd</sup> place winner. Which number sentence can be used to help Angela figure the number of each type of ribbon she will need to buy?

- A.  $23(a + b + c + d) =$   
 B.  $8(a + b + c) + 12(a + b + c + d) + 3(a + b) =$   
 C.  $12(a + b) + 3(a + b + c) + 8(a + b + c + d) =$   
 D.  $8(a + c) + 12(b + d) + 3(a + b) =$
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3. What is the distance in kilometers from Scenic Point to Angel Falls?

- A. 2.4 km                      B. 1.6 km                      C. 6 km                      D. 3.8 km
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