

*SKILLS LIST and SAMPLE ITEMS FOR*

**PRACTICE TEST, MATHEMATICS, GRADE 10**

(Test items developed for skills measured in TERRA NOVA [CTBS]\*)

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*Skills*

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|---|--|
| 1.0 Understanding Numbers               | 6.0 Analyze Data   |
| 1.1 Equivalent Forms,<br>Relationships  | 6.1 Analyze/Interpret/Evaluate<br>Data                         |
| 2.0 Computation/Estimation              | 6.2 Apply Concepts and<br>Processes to Real Life<br>Situations |
| 2.1 Computation Procedures              | 7.0 Pre-Algebra  |
| 2.2 Computation in Context              | 7.1 Patterns   |
| 2.3 Estimation                          | 8.0 Problem Solving  |
| 3.0 Problem Solving                     | 8.1 Reasoning  |
| 3.1 Relationships of Operations         | 8.2 Non-Routine/Real-World<br>Problems                         |
| 4.0 Measurement                         | 9.0 Thinking Skills  |
| 4.1 Types of Measurement                | 9.1 Generate Ideas   |
| 4.2 Solve Problems Using<br>Measurement | 9.2 Organize Information                                       |
| 5.0 Geometry                            | 9.3 Gather Information   |
| 5.1 Spatial Sense                       | 9.4 Analyze Information  |
| 5.2 Classify Shapes                     | 9.5 Synthesize Elements  |
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Number of questions: 46  
Number of pages: 12  
Approximate testing time: 70 minutes  
CTBS and CAT are parallel tests

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(over)

# TERRA NOVA MATHEMATICS PRACTICE TEST - GRADE 10

1. Which number below is equal to  $\frac{10}{40}$ ?

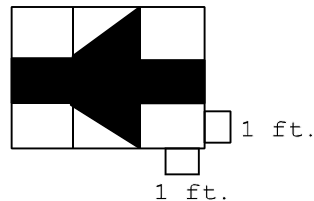
- A. 0.025                      B. 25                              C. 0.255                      D. 0.25
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2. Which of the following expressions would not give an even answer?

- A.  $4^2 + 2^2$                       B.  $(4 + 2)^2$                       C.  $(4 - 2)^2$                       D.  $3^2$
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3. Jupiter is  $5.07 \times 10^8$  miles from the sun. Which of these expresses this distance in standard notation?

- A. 5,700,000                      B. 5.0007                              C. 507,000,000                      D. 570,000
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4. What is the area of the shaded part of this square?

- A. 4 ft.<sup>2</sup>                              B. 2 ft.<sup>2</sup>                              C. 1 ft.<sup>2</sup>                              D. 6 ft.<sup>2</sup>
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5. Belinda has to sell 45 boxes of cookies. She sells 3 boxes the first day, 6 boxes the second day, 9 boxes the third day, and so on. How long will it take her to sell all the cookies?

- A. 4 days                              B. 5 days                              C. 8 days                              D. 11 days
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6. Which of these numbers is not equal to 74.04?

- A. 74.040                              B. 74.004                              C. 74.0400                              D. 74.04000
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