

SKILLS LIST and SAMPLE ITEMS FOR
PRACTICE TEST, MATHEMATICS, GRADE 10
(Test items developed for skills measured in FCAT)

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 | Operations on Numbers and their Relationships | 4.2 | Expressions/Equations/Inequalities/Graphs/Formulas |
| 2.0 | Measurement | 5.0 | Data Analysis and Probability |
| 2.1 | Measures Quantities/Solves Problems | 5.1 | Understands and Interprets Information |
| 2.2 | Compares/Contrasts/Converts | 5.2 | Identify Patterns Probability |
| 3.0 | Geometry | 5.3 | Statistical Methods |
| 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: 45
Number of pages: 10

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FCAT PRACTICE TEST IN MATHEMATICS - GRADE 10

1. In a series of downs, the local football team had the gains and losses listed below. What was the average gain or loss for the series?

11+, -5, -2, +7, -6

- A. +5 B. +1 C. -1 D. -5
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Directions: Use the following information to answer questions 2, 3 and 4.

Workers in a small business have monthly salaries of \$2500, \$1750, \$2415, \$3240, \$2790, \$3240, \$2650, \$2415, \$2415, and \$2650.

2. What is the median salary

- A. \$2575 B. \$2650 C. \$2415 D. \$2790
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3. What is the mode of this data?

- A. \$2575 B. \$2650 C. \$2415 D. \$2790
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4. If a reporter was doing a news article on the salaries of the workers in the business, which method of central tendency would be the most effective in reporting to the public what people in the business make?

- A. mean B. median C. mode D. range
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5. How many liters of water are needed to dilute 20 liters of a 5% salt solution to a 1% solution?

- A. 20 L B. 40 L C. 60 L D. 80 L
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