

# SKILLS LIST and SAMPLE ITEMS

FOR

## PRACTICE TEST FOR MATHEMATICS, GRADE 11

(Test items developed for skills measured in GHSGT)

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### Skills

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|------|---|------|---|
| 1.0  | Number and Computation  | 4.0  | Algebra   |
| 1.1  | Number Equivalent and Approximate Forms   | 4.1  | Simplifies Expressions  |
| 1.2  | Patterns for Addition and Multiplication  | 4.2  | Evaluates Simple Algebraic Expression   |
| 1.3  | Problem-Solving Strategies  | 4.3  | Formulas  |
| 1.4  | Money   | 4.4  | Algebraic Expressions/Equations   |
| 1.5  | Estimation  | 4.5  | Translates Words into Simple Equations  |
| 1.6  | Practical Situations  | 4.6  | Solves Simple Equations   |
| 2.0  | Data Analysis   | 4.7  | Ratios and Proportions  |
| 2.1  | Probability   | 4.8  | Solves Linear Equations   |
| 2.2  | Organizes Data  | 4.9  | Graphs Linear Equations   |
| 2.3  | Interprets Data   | 4.10 | Finds Slope and Intercepts of a Graphed Line                                  |
| 2.4  | Mean, Median, Mode, Range of Data/Statistical Techniques                        | 4.11 | Solves Problems That Involve Systems of Two Linear Equations in Two Variables |
| 3.0  | Measurement and Geometry  |      |   |
| 3.1  | Customary and Metric Units  |      |   |
| 3.2  | Appropriate Measuring Tools   |      |   |
| 3.3  | Length/Area/Volume/Weight, etc.   |      |   |
| 3.4  | Similar and Congruent Figures   |      |   |
| 3.5  | Figures/Ratios  |      |   |
| 3.6  | Graphs  |      |   |
| 3.7  | Perimeter and Area  |      |   |
| 3.8  | Lines, Angles, Circles, Polygons, Cylinders, Cones, Rectangular Solids, Spheres |      |   |
| 3.9  | Geometric Properties  |      |   |
| 3.10 | Angles  |      |   |
| 3.11 | Pythagorean theorem   |      |   |
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Number of questions: 90

Number of pages: 14

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(OVER)

# GHS GT PRACTICE TEST IN MATHEMATICS - GRADE 11

- Which of these is another way to write 21,763?
  - $2.1763 \times 10^3$
  - $2.1763 \times 10^4$
  - $21.763 \times 10^4$
  - $21.763 \times 10^5$
- Which of the following is equivalent to  $\frac{4}{5}$ ?
  - 0.8
  - 0.45
  - $\frac{8}{100}$
  - 0.08
- Of the following, which is not equivalent to  $\frac{3}{5}$ ?
  - 0.6
  - 1.6
  - 60%
  - $\frac{6}{10}$
- What property is demonstrated by turning on a light and turning off a light?
  - associative
  - commutative
  - identity
  - inverse
- Regina purchased 5 cartons of eggs, 4 loaves of bread, and 3 gallons of milk. Which of the following correctly demonstrates the associative property for the total items Regina purchased?
  - $5 + (4 + 3) = (5 + 4) + 3$
  - $5 + (4 + 3) = 5 + (3 + 4)$
  - $5 + 4 + 3 = 12$
  - $(5 + 4) + 3 = (4 + 5) + 3$
- Jim's age ( $j$ ) is greater than Paul's age ( $p$ ). Which inequality correctly demonstrates the relationship between their ages?
  - $p > j$
  - $j > p$
  - $j = p$
  - $j < p$
- The distance between two cities is 275 miles. They are shown 5.5 cm apart on a map. Which of the following is the best estimate for the distance between two cities that are shown 8 cm apart on the same map?
  - 250 miles
  - 325 miles
  - 400 miles
  - 500 miles
- Sandra buys a pair of jeans for \$29.95 and a blouse for \$18.98. Tax on her purchase is 6.52%. What would be the most appropriate method for determining how much she should write her check for?
  - paper and pencil
  - mental math
  - calculator
  - estimation
- Lauren drives 25 miles to work each day and 25 miles home. How many miles will she drive if she works 4 days this week?
  - 140
  - 100
  - 125
  - 200
- Mark buys a pair of shoes for \$29.00 and 2 T-shirts for \$9.00 each. How much change will he receive from \$60.00?
  - \$13.00
  - \$18.00
  - \$22.00
  - \$23.00