

SKILLS LIST and SAMPLE ITEMS

FOR

PRACTICE TEST FOR MATHEMATICS, GRADE 11

(Test items developed for skills measured in CRCT)

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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(OVER)

CRCT PRACTICE TEST IN MATHEMATICS - GRADE 11

- Which of these is another way to write 21,763?
 - 2.1763×10^3
 - 2.1763×10^4
 - 21.763×10^4
 - 21.763×10^5
- 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