

SKILLS LIST and SAMPLE ITEMS

FOR

PRACTICE TEST FOR MATHEMATICS, GRADE 8 - FORM B
(Test items developed for skills measured in CRCT)

Skills

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|--|---|
| 1.0 Number Sense and Numeration | 4.0 Statistics and Probability |
| 1.1 Fundamental Characteristics | 4.1 Collects, Organizes, and Displays Data |
| 1.2 Place Value | 4.2 Probability |
| 1.3 Properties of Numbers | 4.3 Identifies Outcomes of Events |
| 2.0 Geometry and Measurement | 4.4 Mean, Mode, Median, and Range |
| 2.1 Characteristics of Shapes; Classifying Plane and Solid Figures | 5.0 Computation and Estimation |
| 2.2 Appropriate Units/Instruments | 5.1 Properties of Addition and Multiplication |
| 2.3 Formulas Related to Plane and Solid Figures | 5.2 Operations in Computation and Problem Solving |
| 3.0 Patterns and Relationships | 5.3 Estimation and Mental Computation |
| 3.1 Number Relations | 5.4 Computes Percent |
| 3.2 Predicts and Complete Patterns | 6.0 Problem Solving |
| 3.3 Uses Order of Operations | 6.1 Interprets Data/Appropriate Graphs |
| 3.4 Solves Equations | 6.2 Problem-Solving Strategies |
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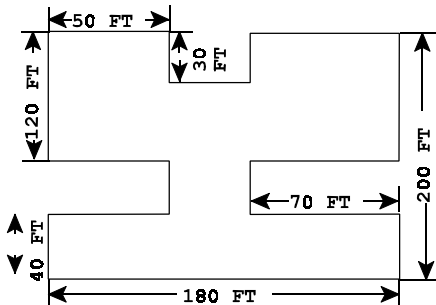
(OVER)

CRCT PRACTICE TEST IN MATHEMATICS - GRADE 8 - FORM B

1. Which function below fits the table?

x	y
3	8
4	11
5	14
7	20

- A. $f(x) = 3x - 1$
 B. $f(x) = 3x + 1$
 C. $f(x) = x - 3$
 D. $f(x) = 2x - 1$
2. The floor plan for Mr. Carter's warehouse is shown. How many square feet of lumber are needed to cover the floor?



- A. 1,060 sq. feet
 B. 26,000 sq. feet
 C. 29,000 sq. feet
 D. 29,400 sq. feet
3. Find the next number in the pattern:

1, 1.25, 1.5, 1.75, _____

- A. 1.80
 B. 1.95
 C. 2
 D. 2.25

4. Describe the function that changes y into x.

x	y
2	34
3	36
4	38
5	40

- A. Multiply x by 15 and add 4 to obtain y.
 B. Subtract 18 from y and divide by 8 to obtain x.
 C. Subtract 30 from y and multiply by 2 to obtain x.
 D. Add 30 to 2 times x to obtain y.
5. If you were to list the three cities that get the least amount of rainfall in order from least to greatest, which cities would you choose?

Rainfall

Atlanta, 4.7 in.	El Paso, 1.6 in.
Houston, 3.3 in.	Las Vegas, 0.5 in.
Miami, 6.0 in.	New York, 3.8 in.

- A. Las Vegas, El Paso, New York
 B. Miami, Atlanta, New York
 C. Las Vegas, El Paso, Houston
 D. Atlanta, Houston, Miami
6. The price of a pizza pie was raised from \$9.25 to \$10.25. Find the approximate percent increase of the price of the pizza.

- A. 5%
 B. 7.5%
 C. 11%
 D. 12%