

SKILLS LIST and SAMPLE ITEMS FOR

PRACTICE TEST, MATHEMATICS, GRADE 11

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

Skills

- | | |
|--|---|
| 1.0 Understanding Numbers | 6.0 Analyze Data |
| 1.1 Equivalent Forms,
Relationships | 6.1 Analyze/Interpret/Evaluate
Data |
| 2.0 Computation/Estimation | 6.2 Apply Concepts & Processes
to Real Life Situations |
| 2.1 Computation Procedures | 7.0 Pre-Algebra |
| 2.2 Computation in Context | 7.1 Function/Equality/
Inequality |
| 3.0 Problem Solving | 7.2 Problem Solving |
| 3.1 Relationships of Operations | 8.0 Problem Solving |
| 4.0 Measurement | 8.1 Reasoning |
| 4.1 Types of Measurement | 8.2 Non-Routine/Real-World
Problems |
| 4.2 Solve Problems Using
Measurements | 9.0 Thinking Skills |
| 5.0 Geometry | 9.1 Generate Ideas |
| 5.1 Spatial Sense | 9.2 Organize Information |
| 5.2 Classify Shapes, Apply
Geometric Formulas | 9.3 Gather Information |
| | 9.4 Analyze Information |
| | 9.5 Synthesize Elements |
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Number of questions: 46

Number of pages: 9

Approximate testing time: 70 minutes

CTBS and CAT are parallel tests

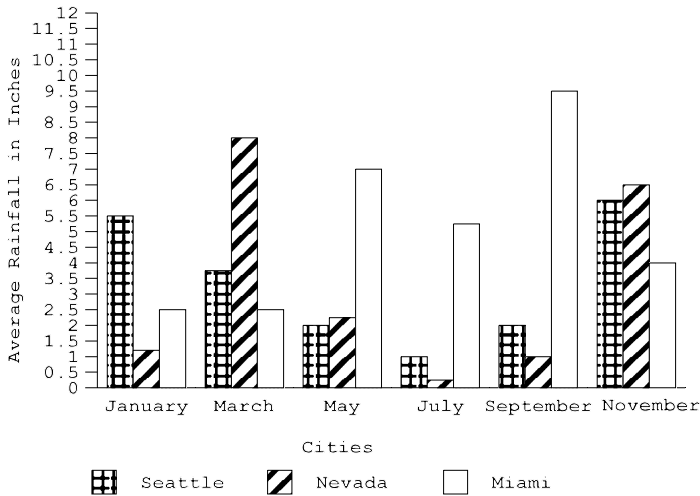
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TERRA NOVA PRACTICE TEST IN MATHEMATICS - GRADE 11

Directions: The average rainfall for Seattle, Nevada, and Miami for every other month in the calendar year is shown in the graph below. Refer to the graph to answer Numbers 1 through 4.

Average Rainfall for Three Cities
Six Months of the Year



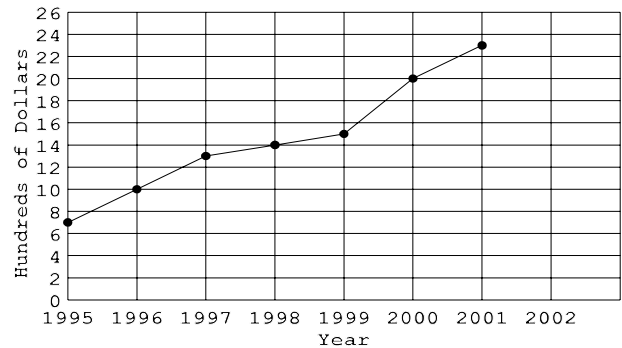
[Source: World Climate (www.worldclimate.com)]

- What was the approximate average rainfall of the three cities for the least rainy month?
 - 1.2 inches
 - 2.1 inches
 - 3.7 inches
 - 5.9 inches
- Which month had the largest range in rainfall for the three cities?
 - September
 - July
 - March
 - January
- Which city(s) had four consecutive months of decreasing amounts of rainfall?
 - Seattle and Miami
 - Nevada and Seattle
 - Seattle only
 - Nevada only

- Based on the graph, which of the following statements is true?
 - Nevada and Seattle have about the same average rainfall in May.
 - The average rainfall in Miami for July is less than the average rainfall for Nevada.
 - The average rainfall in Miami is always more than the average rainfall for Nevada for four of the six months shown.
 - The decrease in rainfall for Nevada from March to May is about 60%.

Directions: Oldton High School has a gift paper sale drive every fall. The revenue raised since 1995 is shown in the graph below. Answer Numbers 5 and 6 based on the graph.

Annual Revenue from Gift Paper Sales
Oldton High School



- According to the data on the graph, which statement is false?
 - Revenue has been increasing yearly since 1995.
 - The smallest increase in revenue was from 1996 to 1997.
 - Revenue increased about 45% from 1995 to 1996.
 - The revenue raised in 2000 was twice as much as in 1996.
- Using the trend of the graph, about how much revenue will be raised in 2002?
 - more than \$3,000
 - less than \$2,000
 - between \$2,300 and \$2,600
 - between \$1,500 and \$2,200