

SIERRA VISTA HIGH SCHOOL
MATHEMATICS DEPARTMENT

Nevada High School Mathematics
Practice Proficiency Exam
Mini-Test 5

1999
(10 Questions)



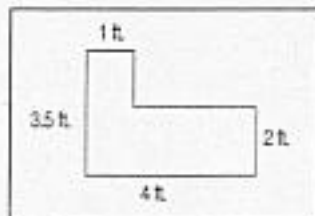
Practice Proficiency #5

Numbers and Operations

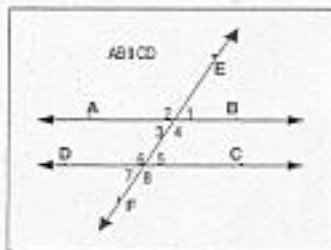
- Which list of numbers is in order from largest to smallest?
 - 1.4, 1.41, 1.411
 - 1.602, 1.41, 1.416
 - 2.6, 4.1, 3.92
 - 2.16, 1.9, 1.87
 - 2.18, 2.2, 2.01
- In 1991 Kevin's water bill averaged \$25 per month. Which operation would be used to find Kevin's total water expense for the year?
 - Addition
 - Subtraction
 - Multiplication
 - Division
 - Both addition and division
- A number is nine more than negative three. What is the number?
 - 27
 - 12
 - 6
 - 9
 - 12

Measurement and Geometry

- Raul is growing strawberries in a triangular plot. The plot is 4 feet on one side and 6 feet on each of the other two sides. What length of fencing would be the minimum required to enclose the strawberries?
 - 24 ft
 - 16 ft
 - 12 ft
 - 10 ft
 - 6 ft
- Helsi has sketched out plans for cutting a new counter top below. What is the area of the counter top? (The figure is not drawn to scale.)
 - 14 sq. ft.
 - 11.5 sq. ft.
 - 10.5 sq. ft.
 - 9.5 sq. ft.
 - 8 sq. ft.



- Which pair of angles is supplementary?
 - 1 and 3
 - 2 and 6
 - 5 and 7
 - 1 and 5
 - 4 and 5



Data Analysis, Probability, and Statistics

7. How many possible outcomes are there when choosing a wig and a pair of sunglasses from a drawer? The drawer contains a blonde wig, a black wig, a red wig, a pair of blue sunglasses, and a pair of brown sunglasses.
- A. 2
 - B. 3
 - C. 4
 - D. 5
 - E. 6
8. What is the probability of choosing a white shirt from a drawer containing three white shirts, two blue shirts, and two red shirts, if you choose only one shirt without looking?
- A. $\frac{1}{3}$
 - B. $\frac{1}{7}$
 - C. $\frac{3}{7}$
 - D. $\frac{3}{4}$
 - E. $\frac{7}{7}$

Algebra and Functions

9. A mountain climber ascended at a rate of 1200 feet per hour. After one hour she fell and dropped 600 feet down. She got up and continued at a rate of 1000 feet per hour. The mountain was 4600 feet tall. About how long did it take her to reach the top?
- A. 5 hours
 - B. 4 hours 30 minutes
 - C. 3 hours 50 minutes
 - D. 3 hours
 - E. 2 hours
10. A triangle has an area of $14x^2y$ square units. The height is $7xy$. Find the length of the base.
- A. x
 - B. $2x$
 - C. $4x$
 - D. $7x$
 - E. x^2