

**SIERRA VISTA HIGH SCHOOL**  
**MATHEMATICS DEPARTMENT**

*Nevada High School Mathematics*  
*Practice Proficiency Exam*  
**Mini-Test 12**

1999  
(10 Questions)

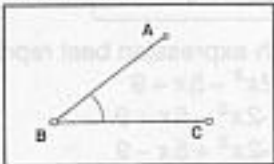


## Practice Proficiency #12

### Numbers and Operations

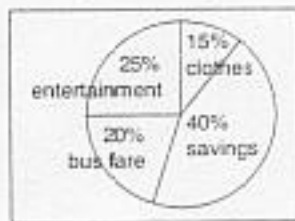
1. A teacher can grade 5 exams in 3 minutes. At this rate, how long will it take the teacher to grade 30 exams?
- A. 6 minutes  
B. 10 minutes  
C. 15 minutes  
D. 18 minutes  
E. 38 minutes
2. The absolute value of 64 is the same as which of the following?
- A. -64  
B. 64  
C. 46  
D.  $\sqrt{64}$   
E.  $\frac{1}{64}$

### Measurement and Geometry

3. Based on the drawing shown here, which of the following statement is true?
- A. Line segment AB is perpendicular to line segment BC.  
B. Line segment AB is parallel to line segment BC.  
C. Angle ABC is about 45 degrees.  
D. Angle ABC is a right angle.  
E. Angle ABC is about 180 degrees.
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4. Which metric measure is about equal to 1 quart?
- A. 1 milliliter  
B. 1 cubic centimeter  
C. 1 liter  
D. 1 kiloliter  
E. 1 cubic meter
5. Each lawn sprinkler at Greenery Inc. can reach 10 feet in any direction as it rotates. What is the approximate area one sprinkler can water?
- A. 78.5 square feet  
B. 100 square feet  
C. 314 square feet  
D. 31.4 square feet  
E. 25 square feet

### Data, Probability, and Statistics

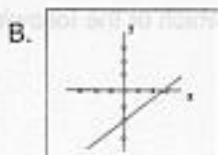
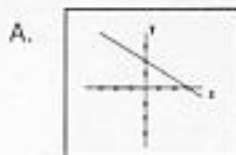
6. This graph shows how Eric spends his \$80 weekly salary from his part-time job. About how much does Eric spend on clothes and bus fare each week?
- A. \$12  
B. \$16  
C. \$20  
D. \$28  
E. \$35



7. There are three cherry candies and two sour apple candies in a dish. One candy is chosen at random. What is the probability, expressed as a percent, that it is a sour apple candy?
- 10%
  - 20%
  - 40%
  - 75%
  - 100%

### Algebra and Functions

8. Which graph best represents the equation  $y = -2x + 3$ ?



E. None of these.

9. Which expression best represents the opposite of  $2x^2 - 5x + 9$ ?

- $2x^2 - 5x + 9$
- $-2x^2 - 5x + 9$
- $-2x^2 + 5x - 9$
- $9 + 5x - 2x^2$
- $-9 - 5x + 2x^2$

10. Which of the following points could you add to the graph in order that you can draw two right triangles by connecting the two given points with the points already on the graph?

- $(-2, 2)$  and  $(2, 2)$
- $(-2, 2)$  and  $(2, -2)$
- $(2, -2)$  and  $(2, 2)$
- $(-2, -1)$  and  $(2, 1)$
- $(-2, -1)$  and  $(2, 2)$

