

SIERRA VISTA HIGH SCHOOL
MATHEMATICS DEPARTMENT

Nevada High School Mathematics
Practice Proficiency Exam
Mini-Test 6

1999
(10 Questions)



Practice Proficiency #6

Numbers and Operations

1. A restaurant uses 5 pounds of ground beef to make one dozen hamburgers. At this rate, how many pounds of ground beef are needed to make 144 hamburgers?
- A. 30 lbs.
 B. 60 lbs.
 C. 72 lbs.
 D. 144 lbs.
 E. 720 lbs.

2. The Fashion King Clothing Company advertised twenty-five percent off all clothing. What would a \$43.20 jacket cost at this sale price?
- A. \$32.40
 B. \$27.30
 C. \$18.20
 D. \$17.28
 E. \$10.80

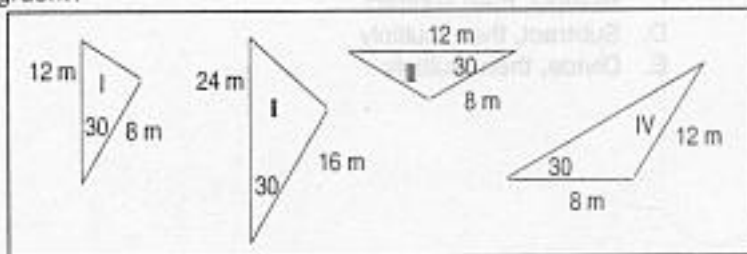
3. Van, Cedric, and Shauna joined a friend for lunch. The bill total was \$29.20. They decided to leave a dollar tip each and divided the bill evenly. What was each person's share?
- A. \$10.73
 B. \$9.73
 C. \$8.73
 D. \$8.30
 E. \$7.30

Measurement and Geometry

4. Jackie is going to jog twice around a rectangular field that measures 400 meters by 350 meters. About how far will she jog?
- A. 50 meters
 B. 750 meters
 C. 1500 meters
 D. 3000 meters
 E. 140000 meters

5. Which two figures appear to be congruent?

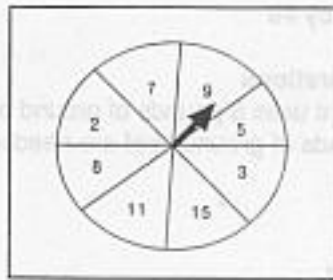
- A. I and II
 B. I and III
 C. II and IV
 D. I and IV
 E. All figures appear to be congruent.



Data Analysis, Probability, and Statistics

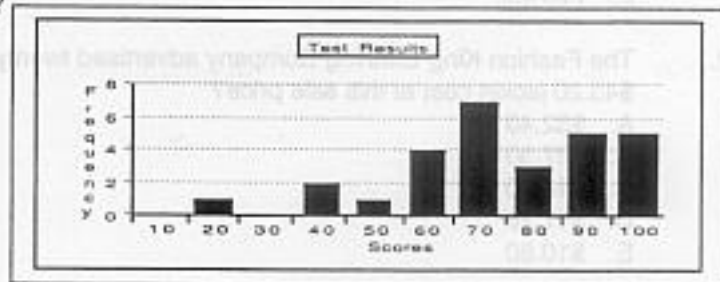
6. What is the probability of the spinner stopping on an even or a prime number?

A. $\frac{1}{2}$
B. $\frac{3}{4}$
C. $\frac{1}{8}$
D. $\frac{5}{8}$
E. $\frac{7}{8}$



7. What is the mode of these test scores?

A. 7
B. 60
C. 70
D. 80
E. Both 90 and 100



Algebra and Functions

8. When $x = 5$ and $y = 6$, evaluate $2x + y^2$.

A. 22
B. 37
C. 46
D. 58
E. 87

9. Which ordered pair is not a solution of the following equation: $3x = y + 4$?

A. (5, 11)
B. (1, -1)
C. $(\frac{1}{3}, -3)$
D. (0, -4)
E. (-2, 2)

10. What operations would be used to solve the following equation for p : $6p - 7 = 5$?

A. Divide, then add
B. Add, then divide
C. Multiply, then subtract
D. Subtract, then multiply
E. Divide, then multiply