GRADUATION MATH COMPETENCY PRACTICE TEST

This test consists of 35 questions, administered in 30 minutes. It measures students' knowledge of operations with real numbers; operations with algebraic expressions; solution of equations and inequalities; and students' ability to apply algebraic operations and to interpret data.

Elementary Algebra Skills (35 questions, 30 minutes)

1. Operations with real numbers	9 questions
2. Operations with algebraic expressions	9 questions
3. Solution of equations and inequalities	8 questions
4. Applications	9 questions

Sample Questions for Elementary Algebra Skills

1. $3^0 + 3^2 =$

(A) 6

(B) 8

(C) 9

(D) 10

2. $(3t-4)^2 =$

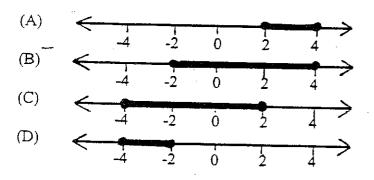
(A) $9t^2 - 16$

(B) $9t^2 \div 16$

(C) $9t^2 - 24t - 16$

(D) $9t^2 - 24t + 16$

3. Which of the following is the graph of $-4 \le x \le 2$?



- 4. If Eric has x dimes and y nickels, which of the following represents the amount of money he has, in cents?
- (A) 5x + 10y
- (B) 10x + 5y
- (C) (10+5)(x+4)
- (D) 50 (x + y)

DAILY NOON TEMPERATURE

Day	Noon Temperature (in degrees Fahrenheit)
Monday	52°
Tuesday	540
Wednesday	53 ^{0.}
Thursday	xo

- 5. If the average (arithmetic mean) of the noon temperatures for the 4 days shown in the table above was 55° , what is the value of x?
 - (A) 55
 - (B) 56
 - (C) 57
 - (D) 61

Elementary Algebra Answers:

- I. D
- 2. D
- 3. C
- 4. B
- 5. D