

Name: Kelly

Date: _____

Score: _____

MATHEMATICS TEST
8 Minutes—8 Questions

DIRECTIONS: Solve each problem, choose the correct answer, and then fill in the corresponding oval on your answer document.

Do not linger over problems that take too much time. Solve as many as you can; then return to the others in the time you have left for this test.

You are permitted to use a calculator on this test. You may use your calculator for any problems you choose,

but some of the problems may best be done without using a calculator.

Note: Unless otherwise stated, all of the following should be assumed.

1. Illustrative figures are NOT necessarily drawn to scale.
2. Geometric figures lie in a plane.
3. The word line indicates a straight line.
4. The word average indicates arithmetic mean.

Pre-Algebra 23% ~ about 14 out of 60

1. On the first day of school, Mr. Vilani gave his third grade students 5 new words to spell. On each day of school after that, he gave the students 3 new words to spell. In the first 20 days of school, how many new words had he given the students to spell?

- A. 28
B. 62
C. 65
D. 68

B

Days	Words
1	5
2	8
3	11
4	14
5	17
...	
20	

$$y = 3(x - 1) + 5$$

$$y = 3(20 - 1) + 5 = 3(19) + 5 = 62$$

Elementary Algebra 17% ~ about 10 out of 60

2. What is the value of the expression $(x - y)^2$ when $x = 5$ and $y = -1$?

- F. 4
G. 6
H. 16
J. 24
K. 36

$$(5 - -1)^2 = 6^2 = 36$$

K

3. Which of the following is equivalent to $(4x^2)^3$?

- F. $64x^8$
G. $64x^6$
H. $12x^6$
J. $12x^5$
K. $4x^6$

G

$$4^3 \cdot x^6 = 64x^6$$