

# Grade 6 Math Test 1

## Number and Operations

1. If  $a \oplus b = \frac{a \times b}{a + b}$  for  $a, b$  positive integers, then what is  $5 \oplus 10$ ? ( ) .

- A.  $\frac{3}{10}$                       B. 1                      C. 2                      D.  $\frac{10}{3}$                       E. 50

2. When  $10^{93} - 93$  is expressed as a single whole number, the sum of the digits is ( ) .

- A. 10                      B. 93                      C. 819                      D. 826                      E. 833

3. Jamie counted the number of edges of a cube, Jimmy counted the numbers of corners, and Judy counted the number of faces. They then added the three numbers. What was the resulting sum? ( ) .

- A. 12                      B. 16                      C. 20                      D. 22                      E. 26

4. There are four more girls than boys in Ms. Raub's class of 28 students. What is the ratio of number of girls to the number of boys in her class? ( ) .

- A. 3 : 4                      B. 4 : 3                      C. 3 : 2                      D. 7 : 4                      E. 2 : 1

5. A rectangular photograph is placed in a frame that forms a border two inches wide on all sides of the photograph. The photograph measures 8 inches high and 10 inches wide. What is the area of the border, in square inches? ( ) .

- A. 36                      B. 40                      C. 64                      D. 72                      E. 88

6. A child's wading pool contains 200 gallons of water. If water evaporates at the rate of 0.5 gallons per day and no other water is added or removed, how many gallons of water will be in the pool after 30 days? ( ) .

- A. 140                      B. 170                      C. 185                      D. 198.5                      E. 199.85

7. What is the value of  $4 \cdot (-1 + 2 - 3 + 4 - 5 + 6 - 7 + \dots + 1000)$ ? ( ) .

- A. -10                      B. 0                      C. 1                      D. 500                      E. 2000

# Grade 6 Math Test Papers

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