

Part 4 Exponents and Order of Operations

Use the order of operations to find the value.

A. $9^3 \times 5 \div 3 =$

B. $(4^4 + 4) \div 10 =$

C. $(6 + 3) \times 5^2 \div 5 =$

D. $(3^2 \times 6) + 8 \div 4 =$

Part 5 Using Exponents

1. Each of the three numbers below is written as a product of primes. Rewrite the prime factorizations using exponents.

A. $180 = 2 \times 3 \times 5 \times 2 \times 3 =$ _____

B. $2125 = 5 \times 17 \times 5 \times 5 =$ _____

C. $17,820 = 11 \times 2 \times 3 \times 3 \times 5 \times 2 \times 3 \times 3 =$ _____

2. Write each of the following numbers as a product of its primes without exponents. Use factor trees. Then write the number as a product of its primes using exponents.

A. 20

B. 48

C. 56