PEP Grade 4 Math — Unit 3: Laws of Operations • Unit Test (Basic)

PEP · Grade 4 · Term 2 · Mathematics · Unit Test · Basic

AI-generated practice paper · original study aid, not an official examination paper · 40 questions · 100 points

Name: _____ Date: _____ Score: _____

Answer all questions. This paper is worth 100 points. Show your working where appropriate.

I. Multiple Choice

1. Which property states that changing the order of addends does not change the sum?
   A. Associative Property
   B. Commutative Property
   C. Distributive Property
   D. Identity Property

2. What is the result of 15 + 0 using the identity property of addition?
   A. 0
   B. 15
   C. 1
   D. 30

3. Which expression shows the associative property of multiplication?
   A. 3 × (4 × 5) = (3 × 4) × 5
   B. 6 × 7 = 7 × 6
   C. 9 + 0 = 9
   D. 2 × (3 + 4) = (2 × 3) + (2 × 4)

4. If 8 × 12 = 96, what is 12 × 8 using the commutative property?
   A. 48
   B. 96
   C. 100
   D. 88

5. Which equation uses the distributive property correctly?
   A. 5 × (6 + 4) = (5 × 6) + (5 × 4)
   B. 5 + (6 × 4) = (5 + 6) × (5 + 4)
   C. (5 + 6) × 4 = 5 + (6 × 4)
   D. 5 × 6 + 4 = 5 × (6 + 4)

6. What is the value of 25 + (17 + 3) if we use the associative property?
   A. 45
   B. 35
   C. 55
   D. 40

7. Which number makes this true: 18 × (10 + 2) = (18 × 10) + (18 × ?)
   A. 1
   B. 2
   C. 8
   D. 12

8. Which expression demonstrates the commutative property of addition?
   A. 4 + (6 + 5) = (4 + 6) + 5
   B. 7 + 3 = 3 + 7
   C. 9 + 0 = 9
   D. 2 × (5 + 3) = (2 × 5) + (2 × 3)

9. Use the identity property to find the missing number: 42 + ? = 42
   A. 1
   B. 42
   C. 0
   D. 84

10. Which property justifies that (5 × 3) × 2 = 5 × (3 × 2)?
    A. Commutative
    B. Distributive
    C. Associative
    D. Identity