

Independent Practice

1.3

NAME _____

Module 1 **Number Sense**
Lesson 3 **Properties of Addition and Multiplication and Inverse Operations**

Name the property shown.

1. $7 + (19 + 4) = (7 + 19) + 4$ _____
2. $197 \times 1 = 197$ _____
3. $76 \times 0 = 0$ _____
4. $13 \times 16 = 16 \times 13$ _____
5. $110 + 0 = 110$ _____
6. $(3 \times 15) \times 11 = 3 \times (15 \times 11)$ _____
7. $10 + (16 + 9) = (16 + 9) + 10$ _____
8. $(8 + 5) + 3(7 \times 4) = 8 + [5 + (3 \times 7)4]$ _____

Simplify using mental math.

9. $19 + 43 + 81$
10. $27 + 8 + 73 + 32$
11. $39 + 21 + 17 + 61$
12. $46 + 9 + 41 + 4$
13. 50×76
14. $2 \times 98 \times 5$
15. $4 \times 54 \times 25$
16. $20 \times 15 \times 5 \times 6$
17. $240 \times 25 + 180 \times 50$
18. $(36)(5)(10) + (114)(50)$

Solve and give a reason for each step.

19. $20 \times (27 \times 5)$
20. $33 + 45 + 17 + 25$

Journal

1. Explain how the Associative Properties of Addition and Multiplication can help with mental math.
2. Explain the difference between the Identity Properties of Addition and Multiplication.

Cumulative Review

Evaluate each of the following.

1. $(9 + 21)(49 - 19)$

2. $(9 - 5)(8 + 6) \div 7$

3. $25 + 5 \times [30 \div (27 - 17)]$

4. $[60 \div (7 + 8)] \times [90 \div (12 - 9)]$

5. $10[(44 \div 4) - 3(9 - 7)]^2$

6. $(36 \div 3)^2 \div [36 - (6)(4) - (66 \div 6)]$

Determine if each number is divisible by 2, 3, 4, 5, 6, 9, or 10.

7. 580

8. 6,916

9. 12,675

10. 28,764