



## Applying Properties of Operations

Name: \_\_\_\_\_

Apply the distributive property to produce an equivalent expression.

Answers

1)  $18 + 54b$

1. \_\_\_\_\_

2)  $8(9 + 2c)$

2. \_\_\_\_\_

3)  $d + d + d + d + d + d + d$

3. \_\_\_\_\_

4)  $8 + 8e + 8 + 10e$

4. \_\_\_\_\_

5)  $18f + 9$

5. \_\_\_\_\_

6)  $4 + 5g + 7g + 5$

6. \_\_\_\_\_

7)  $5(10h + 6)$

7. \_\_\_\_\_

8)  $56 + 21i$

8. \_\_\_\_\_

9)  $j + j + j + j$

9. \_\_\_\_\_

10)  $63 + 14k$

10. \_\_\_\_\_

11)  $7 + 10 + 4m + 9m$

11. \_\_\_\_\_

12)  $40 + 8n$

12. \_\_\_\_\_

13)  $10(9 + 3p)$

13. \_\_\_\_\_

14)  $100 + 50r$

14. \_\_\_\_\_

15)  $5(6t + 2)$

15. \_\_\_\_\_

16)  $u + u + u + u + u + u$

16. \_\_\_\_\_

17)  $v + v + v + v + v + v$

17. \_\_\_\_\_

18)  $3(5w + 10)$

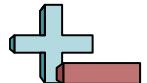
18. \_\_\_\_\_

19)  $4 + 7 + 8y + 2y$

19. \_\_\_\_\_

20)  $z + z + z + z + z + z + z + z + z$

20. \_\_\_\_\_



## Applying Properties of Operations

Name: **Answer Key**

Apply the distributive property to produce an equivalent expression.

1)  $18 + 54b$

**Answers**

1.  $18(1 + 3b)$

2)  $8(9 + 2c)$

2.  $72 + 16c$

3)  $d + d + d + d + d + d + d$

3.  $7d$

4)  $8 + 8e + 8 + 10e$

4.  $18e+16$

5)  $18f + 9$

5.  $9(2f + 1)$

6)  $4 + 5g + 7g + 5$

6.  $12g+9$

7)  $5(10h + 6)$

7.  $50h + 30$

8)  $56 + 21i$

8.  $7(8 + 3i)$

9)  $j + j + j + j$

9.  $4j$

10)  $63 + 14k$

10.  $7(9 + 2k)$

11)  $7 + 10 + 4m + 9m$

11.  $13m+17$

12)  $40 + 8n$

12.  $8(5 + 1n)$

13)  $10(9 + 3p)$

13.  $90 + 30p$

14)  $100 + 50r$

14.  $50(2 + 1r)$

15)  $5(6t + 2)$

15.  $30t + 10$

16)  $u + u + u + u + u + u$

16.  $6u$

17)  $v + v + v + v + v + v$

17.  $6v$

18)  $3(5w + 10)$

18.  $15w + 30$

19)  $4 + 7 + 8y + 2y$

19.  $10y+11$

20)  $z + z + z + z + z + z + z + z + z$

20.  $9z$