



## Applying Properties of Operations

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

Apply the distributive property to produce an equivalent expression.

1)  $3(10 + 5B)$

**Answers**

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

2)  $2(9 + 2C)$

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

3)  $4(2 + 3D)$

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

4)  $5(8 + 4E)$

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

5)  $F + F + F + F + F$

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

6)  $G + G + G + G + G + G + G + G + G$

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

7)  $36H + 12$

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

8)  $5 + 10I + 2I + 9$

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

9)  $48 + 12J$

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

10)  $3(3K + 8)$

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

11)  $6(7 + 2L)$

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

12)  $36M + 81$

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

13)  $2(8N + 3)$

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

14)  $3(4O + 4)$

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

15)  $90P + 40$

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

16)  $60Q + 70$

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

17)  $72 + 72R$

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

18)  $56S + 21$

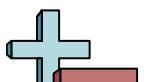
18. \_\_\_\_\_

19)  $70T + 63$

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

20)  $6 + 8 + 3U + 3U$

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



## Applying Properties of Operations

Name: **Answer Key**

Apply the distributive property to produce an equivalent expression.

1)  $3(10 + 5B)$

**Answers**

1. **30 + 15B**

2)  $2(9 + 2C)$

2. **18 + 4C**

3)  $4(2 + 3D)$

3. **8 + 12D**

4)  $5(8 + 4E)$

4. **40 + 20E**

5)  $F + F + F + F + F$

5. **5F**

6)  $G + G + G + G + G + G + G + G$

6. **9G**

7)  $36H + 12$

7. **12(3H + 1)**

8)  $5 + 10I + 2I + 9$

8. **12I+14**

9)  $48 + 12J$

9. **12(4 + 1J)**

10)  $3(3K + 8)$

10. **9K + 24**

11)  $6(7 + 2L)$

11. **42 + 12L**

12)  $36M + 81$

12. **9(4M + 9)**

13)  $2(8N + 3)$

13. **16N + 6**

14)  $3(4O + 4)$

14. **12O + 12**

15)  $90P + 40$

15. **10(9P + 4)**

16)  $60Q + 70$

16. **10(6Q + 7)**

17)  $72 + 72R$

17. **72(1 + 1R)**

18)  $56S + 21$

18. **7(8S + 3)**

19)  $70T + 63$

19. **7(10T + 9)**

20)  $6 + 8 + 3U + 3U$

20. **6U+14**