



## Applying Properties of Operations

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

Apply the distributive property to produce an equivalent expression.

1)  $30B + 24$

Answers

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

2)  $5 + 5 + 9C + 10C$

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

3)  $10 + 16D$

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

4)  $9 + 2E + 8 + 7E$

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

5)  $24F + 48$

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

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

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

7)  $8 + 7H + 8 + 7H$

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

8)  $90I + 80$

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

9)  $6(8 + 7J)$

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

10)  $10 + 9K + 7K + 2$

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

11)  $6 + 8L + 8 + 6L$

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

12)  $5M + 5 + 4M + 3$

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

13)  $6(4N + 7)$

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

14)  $4(4O + 10)$

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

15)  $5(6P + 5)$

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

16)  $2(4Q + 6)$

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

17)  $10(7R + 4)$

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

18)  $2(10S + 7)$

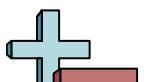
18. \_\_\_\_\_

19)  $4(5 + 7T)$

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

20)  $2U + 2U + 2 + 5$

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



## Applying Properties of Operations

Name: **Answer Key**

Apply the distributive property to produce an equivalent expression.

1)  $30B + 24$

**Answers**

1.  $6(5B + 4)$

2)  $5 + 5 + 9C + 10C$

2.  $19C + 10$

3)  $10 + 16D$

3.  $2(5 + 8D)$

4)  $9 + 2E + 8 + 7E$

4.  $9E + 17$

5)  $24F + 48$

5.  $24(1F + 2)$

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

6.  $9G$

7)  $8 + 7H + 8 + 7H$

7.  $14H + 16$

8)  $90I + 80$

8.  $10(9I + 8)$

9)  $6(8 + 7J)$

9.  $48 + 42J$

10)  $10 + 9K + 7K + 2$

10.  $16K + 12$

11)  $6 + 8L + 8 + 6L$

11.  $14L + 14$

12)  $5M + 5 + 4M + 3$

12.  $9M + 8$

13)  $6(4N + 7)$

13.  $24N + 42$

14)  $4(4O + 10)$

14.  $16O + 40$

15)  $5(6P + 5)$

15.  $30P + 25$

16)  $2(4Q + 6)$

16.  $8Q + 12$

17)  $10(7R + 4)$

17.  $70R + 40$

18)  $2(10S + 7)$

18.  $20S + 14$

19)  $4(5 + 7T)$

19.  $20 + 28T$

20)  $2U + 2U + 2 + 5$

20.  $4U + 7$