



Applying Properties of Operations

Name: _____

Apply the distributive property to produce an equivalent expression.

1) $6B + 9 + 3B + 3$

Answers

1. _____

2) $5 + 10C + 4C + 6$

2. _____

3) $D + D + D + D + D + D + D + D$

3. _____

4) $30 + 25E$

4. _____

5) $40F + 70$

5. _____

6) $2(3 + 7G)$

6. _____

7) $36H + 12$

7. _____

8) $24 + 16I$

8. _____

9) $50J + 10$

9. _____

10) $7K + 2 + 6 + 5K$

10. _____

11) $8(9 + 4L)$

11. _____

12) $9M + 5 + 8M + 2$

12. _____

13) $10(5N + 3)$

13. _____

14) $4(5 + 8O)$

14. _____

15) $P + P + P + P + P + P$

15. _____

16) $35 + 14Q$

16. _____

17) $R + R + R + R + R + R + R + R$

17. _____

18) $8(4 + 5S)$

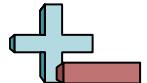
18. _____

19) $12T + 8$

19. _____

20) $6 + 10U + 4 + 8U$

20. _____



Applying Properties of Operations

Name: **Answer Key**

Apply the distributive property to produce an equivalent expression.

1) $6B + 9 + 3B + 3$

Answers

1. **9B+12**

2) $5 + 10C + 4C + 6$

2. **14C+11**

3) $D + D + D + D + D + D + D + D$

3. **8D**

4) $30 + 25E$

4. **5(6 + 5E)**

5) $40F + 70$

5. **10(4F + 7)**

6) $2(3 + 7G)$

6. **6 + 14G**

7) $36H + 12$

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

8) $24 + 16I$

8. **8(3 + 2I)**

9) $50J + 10$

9. **10(5J + 1)**

10) $7K + 2 + 6 + 5K$

10. **12K+8**

11) $8(9 + 4L)$

11. **72 + 32L**

12) $9M + 5 + 8M + 2$

12. **17M+7**

13) $10(5N + 3)$

13. **50N + 30**

14) $4(5 + 8O)$

14. **20 + 32O**

15) $P + P + P + P + P + P$

15. **6P**

16) $35 + 14Q$

16. **7(5 + 2Q)**

17) $R + R + R + R + R + R + R + R$

17. **8R**

18) $8(4 + 5S)$

18. **32 + 40S**

19) $12T + 8$

19. **4(3T + 2)**

20) $6 + 10U + 4 + 8U$

20. **18U+10**