



Applying Properties of Operations

Name: _____

Apply the distributive property to produce an equivalent expression.

1) $8(5 + 5b)$

Answers

1. _____

2) $24 + 40c$

2. _____

3) $80 + 48d$

3. _____

4) $2 + 7 + 3e + 2e$

4. _____

5) $10(8 + 9f)$

5. _____

6) $g + g + g + g + g + g$

6. _____

7) $8(9 + 10h)$

7. _____

8) $10(9 + 4i)$

8. _____

9) $j + j + j + j + j + j + j + j$

9. _____

10) $2k + 9 + 10k + 8$

10. _____

11) $9 + 6m$

11. _____

12) $36 + 72n$

12. _____

13) $8(9 + 10p)$

13. _____

14) $10 + 9r + 9r + 8$

14. _____

15) $21 + 70t$

15. _____

16) $80 + 20u$

16. _____

17) $6(8 + 10v)$

17. _____

18) $48w + 16$

18. _____

19) $5(7 + 5y)$

19. _____

20) $7(4z + 3)$

20. _____



Applying Properties of Operations

Name: **Answer Key****Apply the distributive property to produce an equivalent expression.**

1) $8(5 + 5b)$

Answers

1. **$40 + 40b$**

2) $24 + 40c$

2. **$8(3 + 5c)$**

3) $80 + 48d$

3. **$16(5 + 3d)$**

4) $2 + 7 + 3e + 2e$

4. **$5e+9$**

5) $10(8 + 9f)$

5. **$80 + 90f$**

6) $g + g + g + g + g + g$

6. **$6g$**

7) $8(9 + 10h)$

7. **$72 + 80h$**

8) $10(9 + 4i)$

8. **$90 + 40i$**

9) $j + j + j + j + j + j + j$

9. **$8j$**

10) $2k + 9 + 10k + 8$

10. **$12k+17$**

11) $9 + 6m$

11. **$3(3 + 2m)$**

12) $36 + 72n$

12. **$36(1 + 2n)$**

13) $8(9 + 10p)$

13. **$72 + 80p$**

14) $10 + 9r + 9r + 8$

14. **$18r+18$**

15) $21 + 70t$

15. **$7(3 + 10t)$**

16) $80 + 20u$

16. **$20(4 + 1u)$**

17) $6(8 + 10v)$

17. **$48 + 60v$**

18) $48w + 16$

18. **$16(3w + 1)$**

19) $5(7 + 5y)$

19. **$35 + 25y$**

20) $7(4z + 3)$

20. **$28z + 21$**