



Applying Properties of Operations

Name: _____

Apply the distributive property to produce an equivalent expression.

1) $w + w + w$

Answers

1. _____

2) $h + h + h + h + h + h$

2. _____

3) $2(10 + 7d)$

3. _____

4) $9(5 + 4v)$

4. _____

5) $n + n + n + n + n + n + n + n + n$

5. _____

6) $10 + 20z$

6. _____

7) $8(10p + 10)$

7. _____

8) $6(9 + 9f)$

8. _____

9) $9(9 + 5a)$

9. _____

10) $y + y + y + y$

10. _____

11) $8(2r + 9)$

11. _____

12) $56 + 49e$

12. _____

13) $40g + 45$

13. _____

14) $10(9 + 8b)$

14. _____

15) $20k + 28$

15. _____

16) $t + t + t + t + t + t$

16. _____

17) $s + s + s + s + s + s$

17. _____

18) $10(10u + 8)$

18. _____

19) $8(10c + 3)$

19. _____

20) $18m + 6$

20. _____



Applying Properties of Operations

Name: **Answer Key**

Apply the distributive property to produce an equivalent expression.

1) $w + w + w$

1. **$3w$**

2) $h + h + h + h + h + h$

2. **$6h$**

3) $2(10 + 7d)$

3. **$20 + 14d$**

4) $9(5 + 4v)$

4. **$45 + 36v$**

5) $n + n + n + n + n + n + n + n$

5. **$9n$**

6) $10 + 20z$

6. **$10(1 + 2z)$**

7) $8(10p + 10)$

7. **$80p + 80$**

8) $6(9 + 9f)$

8. **$54 + 54f$**

9) $9(9 + 5a)$

9. **$81 + 45a$**

10) $y + y + y + y$

10. **$4y$**

11) $8(2r + 9)$

11. **$16r + 72$**

12) $56 + 49e$

12. **$7(8 + 7e)$**

13) $40g + 45$

13. **$5(8g + 9)$**

14) $10(9 + 8b)$

14. **$90 + 80b$**

15) $20k + 28$

15. **$4(5k + 7)$**

16) $t + t + t + t + t + t$

16. **$6t$**

17) $s + s + s + s + s + s$

17. **$6s$**

18) $10(10u + 8)$

18. **$100u + 80$**

19) $8(10c + 3)$

19. **$80c + 24$**

20) $18m + 6$

20. **$6(3m + 1)$**

Answers **$3w$** **$6h$** **$20 + 14d$** **$45 + 36v$** **$9n$** **$10(1 + 2z)$** **$80p + 80$** **$54 + 54f$** **$81 + 45a$** **$4y$** **$16r + 72$** **$7(8 + 7e)$** **$5(8g + 9)$** **$90 + 80b$** **$4(5k + 7)$** **$6t$** **$6s$** **$100u + 80$** **$80c + 24$** **$6(3m + 1)$**