



Applying Properties of Operations

Name: _____

Apply the distributive property to produce an equivalent expression.

1) $2(10e + 10)$

2) $10(3 + 6w)$

3) $24 + 36h$

4) $7(6 + 2b)$

5) $a + a + a + a + a$

6) $45n + 54$

7) $9(7 + 5y)$

8) $30m + 20$

9) $10d + 18$

10) $8 + 12p$

11) $7(3 + 3s)$

12) $7(4c + 6)$

13) $3(4f + 6)$

14) $80 + 50r$

15) $7(8t + 4)$

16) $5(5 + 2g)$

17) $9(4v + 3)$

18) $u + u + u + u + u + u + u + u + u$

19) $2(8z + 6)$

20) $3(2k + 6)$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

16. _____

17. _____

18. _____

19. _____

20. _____

1-10	95	90	85	80	75	70	65	60	55	50
11-20	45	40	35	30	25	20	15	10	5	0



Applying Properties of Operations

Name: **Answer Key**

Apply the distributive property to produce an equivalent expression.

1) $2(10e + 10)$

1. **20e + 20**

2) $10(3 + 6w)$

2. **30 + 60w**

3) $24 + 36h$

3. **12(2 + 3h)**

4) $7(6 + 2b)$

4. **42 + 14b**

5) $a + a + a + a + a$

5. **5a**

6) $45n + 54$

6. **9(5n + 6)**

7) $9(7 + 5y)$

7. **63 + 45y**

8) $30m + 20$

8. **10(3m + 2)**

9) $10d + 18$

9. **2(5d + 9)**

10) $8 + 12p$

10. **4(2 + 3p)**

11) $7(3 + 3s)$

11. **21 + 21s**

12) $7(4c + 6)$

12. **28c + 42**

13) $3(4f + 6)$

13. **12f + 18**

14) $80 + 50r$

14. **10(8 + 5r)**

15) $7(8t + 4)$

15. **56t + 28**

16) $5(5 + 2g)$

16. **25 + 10g**

17) $9(4v + 3)$

17. **36v + 27**

18) $u + u + u + u + u + u + u + u + u$

18. **9u**

19) $2(8z + 6)$

19. **16z + 12**

20) $3(2k + 6)$

20. **6k + 18**

Answers

1-10	95	90	85	80	75	70	65	60	55	50
11-20	45	40	35	30	25	20	15	10	5	0