



Applying Properties of Operations

Name: _____

Apply the distributive property to produce an equivalent expression.

1) $7b + 4b + 9 + 3$

Answers

1. _____

2) $3c + 8 + 5 + 7c$

2. _____

3) $30d + 24$

3. _____

4) $12 + 10e$

4. _____

5) $f + f + f + f$

5. _____

6) $2(3 + 5g)$

6. _____

7) $18 + 12h$

7. _____

8) $28 + 63i$

8. _____

9) $5(6j + 8)$

9. _____

10) $k + k + k + k + k + k + k + k + k$

10. _____

11) $m + m + m + m$

11. _____

12) $90 + 100n$

12. _____

13) $30p + 30$

13. _____

14) $8 + 8r + 7r + 2$

14. _____

15) $54 + 18t$

15. _____

16) $3 + 3u + 9u + 6$

16. _____

17) $5(8 + 6v)$

17. _____

18) $w + w + w + w$

18. _____

19) $6y + 9y + 10 + 7$

19. _____

20) $10 + 20z$

20. _____



Applying Properties of Operations

Name: **Answer Key**

Apply the distributive property to produce an equivalent expression.

1) $7b + 4b + 9 + 3$

Answers

1. **11b+12**

2) $3c + 8 + 5 + 7c$

2. **10c+13**

3) $30d + 24$

3. **6(5d + 4)**

4) $12 + 10e$

4. **2(6 + 5e)**

5) $f + f + f + f$

5. **4f**

6) $2(3 + 5g)$

6. **6 + 10g**

7) $18 + 12h$

7. **6(3 + 2h)**

8) $28 + 63i$

8. **7(4 + 9i)**

9) $5(6j + 8)$

9. **30j + 40**

10) $k + k + k + k + k + k + k + k + k$

10. **9k**

11) $m + m + m + m$

11. **4m**

12) $90 + 100n$

12. **10(9 + 10n)**

13) $30p + 30$

13. **30(1p + 1)**

14) $8 + 8r + 7r + 2$

14. **15r+10**

15) $54 + 18t$

15. **18(3 + 1t)**

16) $3 + 3u + 9u + 6$

16. **12u+9**

17) $5(8 + 6v)$

17. **40 + 30v**

18) $w + w + w + w$

18. **4w**

19) $6y + 9y + 10 + 7$

19. **15y+17**

20) $10 + 20z$

20. **10(1 + 2z)**