



## Applying Properties of Operations

Name: \_\_\_\_\_

Apply the distributive property to produce an equivalent expression.

1)  $6(5 + 4y)$

Answers

1. \_\_\_\_\_

2)  $f + f + f + f + f$

2. \_\_\_\_\_

3)  $10s + 16$

3. \_\_\_\_\_

4)  $2(7g + 9)$

4. \_\_\_\_\_

5)  $24 + 48a$

5. \_\_\_\_\_

6)  $2(9 + 5d)$

6. \_\_\_\_\_

7)  $7(7v + 8)$

7. \_\_\_\_\_

8)  $j + j + j + j + j$

8. \_\_\_\_\_

9)  $b + b + b$

9. \_\_\_\_\_

10)  $7(9z + 2)$

10. \_\_\_\_\_

11)  $48 + 48m$

11. \_\_\_\_\_

12)  $20t + 20$

12. \_\_\_\_\_

13)  $6(4 + 7h)$

13. \_\_\_\_\_

14)  $u + u + u + u$

14. \_\_\_\_\_

15)  $30r + 25$

15. \_\_\_\_\_

16)  $8n + 12$

16. \_\_\_\_\_

17)  $p + p + p + p + p$

17. \_\_\_\_\_

18)  $2(10 + 7c)$

18. \_\_\_\_\_

19)  $w + w + w + w + w + w$

19. \_\_\_\_\_

20)  $e + e + e + e + e + e$

20. \_\_\_\_\_



## Applying Properties of Operations

Name: **Answer Key**

Apply the distributive property to produce an equivalent expression.

1)  $6(5 + 4y)$

Answers

**$30 + 24y$**

2)  $f + f + f + f + f$

**$5f$**

3)  $10s + 16$

**$2(5s + 8)$**

4)  $2(7g + 9)$

**$14g + 18$**

5)  $24 + 48a$

**$24(1 + 2a)$**

6)  $2(9 + 5d)$

**$18 + 10d$**

7)  $7(7v + 8)$

**$49v + 56$**

8)  $j + j + j + j + j$

**$5j$**

9)  $b + b + b$

**$3b$**

10)  $7(9z + 2)$

**$63z + 14$**

11)  $48 + 48m$

**$48(1 + 1m)$**

12)  $20t + 20$

**$20(1t + 1)$**

13)  $6(4 + 7h)$

**$24 + 42h$**

14)  $u + u + u + u$

**$4u$**

15)  $30r + 25$

**$5(6r + 5)$**

16)  $8n + 12$

**$4(2n + 3)$**

17)  $p + p + p + p + p$

**$5p$**

18)  $2(10 + 7c)$

**$20 + 14c$**

19)  $w + w + w + w + w + w$

**$6w$**

20)  $e + e + e + e + e + e$

**$6e$**