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SIMPLIFYING AND SOLVING EQUATIONS

Determine the value of the unknown in each equation.

1. $14 - 8d = 2d + 4$

9. $7r - 2 = 2(r - 4)$

2. $3(2 - a) + 6 = 5a$

10. $4i - 6 = 4(2i + 2)$

3. $2(8 + 6c) = 4(-8 + c)$

11. $8j + 8 = 3j - 7$

4. $14 + 6b = 11 - 6$

12. $3(2k - 2) + 4 = 2k$

5. $-10(2 - e) = 18e - 12$

13. $2(2m + 1) = 2 - 3m$

6. $3 + f = 2(2f - 1)$

14. $5q(2 - 1) = 2q - 18$

7. $4g - 8 = 7 - 8g$

15. $3p - 3 = 10 + 2p$

8. $12(2 - h) = 8 - 4h$

16. $4n + 24 = 2n - 2$

Name:

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SIMPLIFYING AND SOLVING EQUATIONS - ANSWERS

Determine the value of the unknown in each equation.

1. $14 - 8d = 2d + 4$
 $d = 1$

2. $3(2 - a) + 6 = 5a$
 $a = 1\frac{1}{2}$

3. $2(8 + 6c) = 4(-8 + c)$
 $c = -6$

4. $14 + 6b = 11 - 6$
 $b = -1\frac{1}{2}$

5. $-10(2 - e) = 18e - 12$
 $e = -1$

6. $3 + f = 2(2f - 1)$
 $f = 1\frac{2}{3}$

7. $4g - 8 = 7 - 8g$
 $g = 1\frac{1}{4}$

8. $12(2 - h) = -8 - 4h$
 $h = 4$

9. $7r - 2 = 2(r - 4)$
 $r = -1\frac{1}{5}$

10. $4i - 6 = 4(2i + 2)$
 $i = -3\frac{1}{2}$

11. $8j + 8 = 3j - 7$
 $j = -3$

12. $3(2k - 2) + 4 = 2k$
 $k = \frac{1}{2}$

13. $2(2m + 1) = 2 - 3m$
 $m = 0$

14. $5q(2 - 1) = 2q - 18$
 $q = -6$

15. $3p - 3 = 10 + 2p$
 $p = 13$

16. $4n + 24 = 2n - 2$
 $n = -13$

