1. Expand and simplify: 2(−2a + 4)

2·(−2a) + 2·4

Answer: −4a + 8

2. Expand and simplify: 2(2a − 3)

2·2a + 2·(−3)

Answer: 4a − 6

3. Expand and simplify: −3(−3y + 1)

(−3)·(−3y) + (−3)·1

Answer: 9y − 3

4. Expand and simplify: 3(−3a + 9)

3·(−3a) + 3·9

Answer: −9a + 27

5. Expand and simplify: −3(2n + 4)

(−3)·2n + (−3)·4

Answer: −6n − 12

6. Expand and simplify: 7(−2a − 5)

7·(−2a) + 7·(−5)

Answer: −14a − 35

7. Expand and simplify: −2(3y − 7)

(−2)·3y + (−2)·(−7)

Answer: −6y + 14

8. Expand and simplify: −2(−3y + 4)

(−2)·(−3y) + (−2)·4

Answer: 6y − 8

9. Expand and simplify: −4(5x − 1)

(−4)·5x + (−4)·(−1)

Answer: −20x + 4

10. Expand and simplify: 2(2x + 6)

2·2x + 2·6

Answer: 4x + 12

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11. Expand and simplify: −2(3a + 9) + 8

(−2)·3a + (−2)·9 + 8

−6a − 18 + 8

Answer: −6a − 10

12. Expand and simplify: 3(y + 6) + 8

3·y + 3·6 + 8

3y + 18 + 8

Answer: 3y + 26

13. Expand and simplify: 2(n + 4) + 5n

2·n + 2·4 + 5n

2n + 8 + 5n

Answer: 7n + 8

14. Expand and simplify: 3(3x + 1) + 3x

3·3x + 3·1 + 3x

9x + 3 + 3x

Answer: 12x + 3

15. Expand and simplify: −6(3y + 6) − 4

(−6)·3y + (−6)·6 − 4

−18y − 36 − 4

Answer: −18y − 40

16. Expand and simplify: 6(−2a + 9) + 3

6·(−2a) + 6·9 + 3

−12a + 54 + 3

Answer: −12a + 57

17. Expand and simplify: 2(x − 8) + 8x

2·x + 2·(−8) + 8x

2x − 16 + 8x

Answer: 10x − 16

18. Expand and simplify: 7(−3y − 1) − 7y

7·(−3y) + 7·(−1) − 7y

−21y − 7 − 7y

Answer: −28y − 7

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19. Expand and simplify: 4(5n − 1) + 8

4·5n + 4·(−1) + 8

20n − 4 + 8

Answer: 20n + 4

20. Expand and simplify: −5(5n − 3) − 7n

(−5)·5n + (−5)·(−3) − 7n

−25n + 15 − 7n

Answer: −32n + 15

21. Expand and simplify: 3(2x − 1) + 2(4x + 5) ★ challenge

6x − 3 + 8x + 10

Answer: 14x + 7

22. Expand and simplify: −2(3x + 4) + 5(x − 2) ★ challenge

−6x − 8 + 5x − 10

Answer: −x − 18

23. Simplify: 7x + 3 − (2x − 5) ★ challenge

7x + 3 − 2x + 5

Answer: 5x + 8

24. Simplify: −4x + 9 − (6x + 8) ★ challenge

−4x + 9 − 6x − 8

Answer: −10x + 1

25. Fill in the blank so the two sides are equal: __(x + 6) = 4x + 24 ★ challenge

4(x + 6) = 4x + 24

Answer: 4

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