

* given Friday 1/20 for homework

#Correct
25

Algebra Study Guide Name: Key

Simplify each expression.

1. $9(x-6)$ $9x-54$

2. $20+8d$ $4(5+2d)$

3. $30p+5-14p+8$ $16p+13$

4. $4(5+6k)$ $20+24k$

5. $15+5d$ $5(3+d)$

6. $4x+5(x+6)$ $9x+30$
 $5x+30$

7. $7(5m-6)$ $35m-42$

8. $4(6m-5)$ $24m-20$

9. $17x+9-5x-7$ $12x+2$

10. $8(6+y)$ $48+8y$

11. $12m+9j-10m-7j+3m$ $5m+2j$

12. $16k+2(4+5k)-10k$ $16k+8$
 $8+10k$

13. $8m+3m+12+2m-8-8m$ $5m+4$

14. $6y^2+y+y+13$ $6y^2+2y+13$

15. $r+r+9r-2$ $11r-2$

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Algebra Study Guide
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Identify the expression that is NOT equivalent to the one given.

16. $16y + 20$

- A. $4(4y + 5)$
- B. $36y$
- C. $20y + 9 - 4y + 11$
- D. $5y + 28 - 8 + 7y + 4y$

17. $30 - 24w$

- A. $5(6 - 6w)$
- B. $15 + 45w + 15 - 21w$
- C. $6(5 - 4w)$
- D. $15(2 - 9w)$

Write an algebraic expression for each verbal phrase.

18. The cost of 2 cookies and a \$1.50 soda

$2c + \$1.50$

19. Three times as many cats as Mark

$3M$ or $3c$

20. take away 60 from a number z

$z - 60$

21. 3 plus a number j

$3 + j$ or $j + 3$

22. a number p decreased by 100

$p - 100$

23. product of 50 and a number b

$50b$ or $50 \cdot b$ or $50 \times b$

24. 49 divided by a number z

$49/z$ or $49 \div z$

25. 3 less than a number p

$p - 3$

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