

Name: _____

HW # _____

Simplify each expression below (combine like terms).

| | | |
|------------------------------|-----------------------|--|
| 1.) $7m + 3m$ | 2.) $12x - 8 - 3x$ | 3.) $y - 10 + 9y - 3$ |
| 4.) $-4r - 10r$ | 5.) $-3z - 9 + 15z$ | 6.) $m - 4 + 7 - 3m$ |
| 7.) $3 + 4x - 4y + 12x + 3y$ | 8.) $0.5x - 8 + 1.3x$ | 9.) $\frac{1}{2}x - 2 + \frac{1}{4}x - 12$ |

Write an algebraic expression or equation for each phrase.

10. Ten less than a number y . _____

11. The quotient of a number and seven. _____

12. Twice the sum of s and eight. _____

13. Five times p decreased by two. _____

14. Five times the difference of p and two. _____

15. One-third of a number increased by ten. _____

16. If Hilda weighs 45 kilograms, represent her weight after she had lost x kilograms. _____

17. Mary's dog Spot, who *should* weigh c pounds, is d pounds overweight. Represent the number of pounds Spot weighs. _____

18. Four subtracted from three times a number is twenty-five. _____

19. To enter the amusement park, you must pay a fee of \$6 and \$2.50 per ride, r . _____

20. To ship a package to your friend, you must pay a flat fee of \$5.50 and \$2.25 per pound, p . _____