Name

2-2B Lesson Master

VOCABULARY

1. Are $4x^2y$ and $-3x^2y$ like terms? _____

2. Identify the coefficient(s) in $-12a^5b^6c^7$. _____

SKILLS Objective A

In 3–16, use the Distributive Property to expand and combine like terms.

3. $-2y + 3x - 5y$

4. $-200 + 18r - 10 + 2r$

5. $-\frac{1}{3}(9s + 27 - 3s + 18)$

_____ _____ _____

6. $0.25(20h + 100) - 10$

7. $4n - 3n + 5n$

8. $-6z + 12q - 4z - 5q$

_____ _____ _____

9. $\frac{1}{5}(25t + 10r - 5t)$

10. $2 - 0.3(5k + 2)$

11. $10 + \frac{1}{8}(8d + 24)$

_____ _____ _____

12. $\left(-\frac{6}{22}n - 5\right)2 - \frac{2n}{11}$

13. $0.2k + 4(0.2k - 0.4)$

14. $\frac{5}{2t} + \frac{18}{2t}$

_____ _____ _____

15. $\left(\frac{10r - 5}{2}\right) + \left(\frac{3r - 2}{2}\right)$

16. $4(-x^3 + 2x) + 2x^3 + 5x$

_____ _____

Name

In 17–20, fill in the blanks to factor the expression.

17. $15k + 5m = 5(\underline{\quad} + \underline{\quad})$

18. $2h - hk = h(\underline{\quad} - \underline{\quad})$

19. $4a^2b - 2a = 2a(\underline{\quad} - \underline{\quad})$

20. $12h^2kl + 6hk = 6hk(\underline{\quad} + \underline{\quad})$

USES Objective H

21. Ethan and A.J. have a lemonade stand. One sixth of their earnings E must be used to pay for supplies for the next day. Each child then gets to keep half of the remaining money. How much does each child get each day in terms of E?

_____

22. In a 4-team tournament, the winner gets $\frac{1}{2}$ of the proceeds, the second-place team gets $\frac{1}{4}$ of the proceeds, and the remaining proceeds are shared equally among the other two teams. Write an expression that shows what portion of the proceeds p each team will receive.

_____

23. Reese, a Labrador retriever, weighs 3 times as much as Susie Q, a cockapoo. Susie Q weighs 5 pounds more than Sabrina, a Lhaso apso. Write a simplified expression for Reese's weight in terms of Sabrina's weight w.

_____

24. Juan has twice as many CDs as Romero has. Romero has 8 fewer CDs than Luisa has. Luisa has L CDs. Write a simplified expression for the number of CDs these friends have altogether.

_____

25. Write a simplified expression for the perimeter of the given rectangle.

ℓ [rectangle with base $2\ell - 5$]

_____