

Name

2-2B

Lesson Master

Questions on SPUR Objectives
See pages 125–127 for objectives.

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

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

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

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

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

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

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.


