

Name

2-1B

Lesson Master

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

SKILLS

Objective A

In 1–15, use the Distributive Property to expand the expression.

1. $-2(3x + 1)$
2. $0.3(5h + 2)$
3. $\left(\frac{z}{12} - \frac{5}{4}\right)4$
4. $2(3r^2 - r + 2)$
5. $-5\left(\frac{2}{3} - \frac{y}{4}\right)$
6. $4n(9 + n)$
7. $(100k - 5)\frac{1}{5k}$
8. $\frac{2}{5}(-10b - 25c)$
9. $-0.6(15l - 45)$
10. $6\left(\frac{3p}{4} - \frac{1}{3}\right)$
11. $\frac{1}{7}(-21g - 14h)$
12. $30t(4,000 - 3t)$
13. $3(-0.4j^2 - 5.3k + 0.1m^3)$
14. $\frac{20}{3}\left(\frac{4f}{5} + 2\right)$
15. $(q + 5)(-0.4)$

In 16–19, fill in the blanks to show an instance of the Distributive Property.

16. $5(y + z) = 5 \underline{\hspace{1cm}} + 5 \underline{\hspace{1cm}}$

17. $9q - 81 = 9 (\underline{\hspace{1cm}} - \underline{\hspace{1cm}})$
18. $100y + 300 = 100 (\underline{\hspace{1cm}} + \underline{\hspace{1cm}})$

19. $6y - 2y = 2 (\underline{\hspace{1cm}} - \underline{\hspace{1cm}})$

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PROPERTIES Objective F

In 20 and 21, show how the Distributive Property can be used to perform the calculation in your head.

20. $5 \cdot \$3.95$ _____

21. $7 \cdot 21$ _____

USES Objective H

22. A clothing store offers 25% off all store items as part of their annual clearance sale. Jason purchases one \$20 shirt and s pairs of socks for \$3 each. Write two expressions for his discount in terms of s .

23. A salesperson for the Cheese of the Month Club makes 5% of whatever a client pays during his or her membership. The initial membership cost is \$30 and the yearly cost is \$120. Use two ways to find out how much the salesperson will make if a client belongs to the club for 5 years.

24. Cindy is planning to make holiday wreaths to sell at a craft fair. Each wreath will have a large bow that uses $3\frac{1}{2}$ yards of ribbon. How many yards of ribbon will she need for 12 wreaths? Explain how you can find the answer in your head.

25. A bottle of juice costs \$1.98. Show how you can calculate in your head the cost of 6 bottles of juice.

26. Tony purchased ten \$0.39 notebooks and ten \$0.25 erasers. Show how to compute the cost of the supplies in two different ways.

27. Kim works evenings and weekends at her family's restaurant. On the weekends, she earns time and a half. If her regular rate of pay is \$9.00 an hour, how much will she earn per hour on the weekends?