

Algebra I
 4.2 Worksheet #1
 Multiplying and Dividing Expressions

NAME: _____
 DATE: _____ HOUR: _____

Evaluate $15b$ for the following values of b .

1. If $b = -7$, $15b =$ _____ 2. If $b = 3.2$, $15b =$ _____ 3. If $b = 5$, $15b =$ _____ 4. If $b = \frac{1}{4}$, $15b =$ _____

Evaluate $3s + 2$ for the following values of s .

5. If $s = 30$, $3s + 2 =$ _____ 6. If $s = 2.7$, $3s + 2 =$ _____ 7. If $s = -4.5$, $3s + 2 =$ _____ 8. If $s = \frac{1}{2}$, $3s + 2 =$ _____

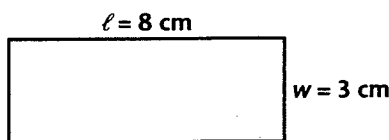
Simplify the following expressions. Use the Distributive Property if needed.

9. $3 \cdot 4x$ _____ 10. $-4x \cdot 3$ _____ 11. $4x \cdot 3x$ _____
 12. $-4(3x + 3)$ _____ 13. $-2.3x \cdot 2x$ _____ 14. $-12x \div 2$ _____
 15. $\frac{6 + 12w}{2}$ _____ 16. $\frac{10 - 5x}{-5}$ _____ 17. $\frac{-4 + 6x}{2}$ _____
 18. $-15x \cdot 4x$ _____ 19. $-4(6c - 4)$ _____ 20. $x^2 - 3(2 - x^2)$ _____

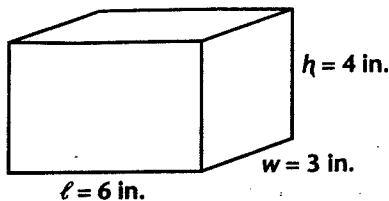
The telephone company charges \$40 per hour for repair work, plus a \$25 service charge per job. How much would a customer be charged for a job that takes

21. 2 hours? _____ 22. 3.5 hours? _____ 23. h hours _____

24. The formula for finding the perimeter of a rectangle is $P = 2l + 2w$. Find the perimeter of this rectangle by evaluating the formula for the given length and width.



25. Evaluate the formula for volume $V = lwh$ for a rectangular prism with the given dimensions.



For 26-29, find the average for each set of numbers.

26. 4, 5, 8, 3, 7, 5, 7, 6, 9 27. 211, 225, 654, 432, 567

 28. 3.7, 6.8, 9.3, 11.2, 5.6 29. 5.2, 5.3, 5.4, 5.5, 5.6
