

Practice and Problem Solving

Homework Help

Example Exercises

1	12-19, 39
2	20-31, 40
3	32-38, 40



Online Resources

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- More Examples
- eTutorial Plus

Evaluate the expression when $x = 6$.

12. $x + 3$

13. $15 - x$

14. $2x$

15. $\frac{x}{3}$

16. $20x$

17. $\frac{24}{x}$

18. $30 - x$

19. $15 + x$

Evaluate the expression when $a = 4$, $b = 2$, and $c = 16$.

20. $a + b$

21. $c - a$

22. ab

23. $\frac{a}{b}$

24. bc

25. $\frac{c}{a}$

26. $a - b$

27. $\frac{c}{b}$

28. $b + c$

29. $c - b$

30. ac

31. $a + c$

Write a variable expression to represent the phrase.

32. The product of 72 and
a number

34. 13 more than a number

36. The quotient of a number and 3

33. The difference of a number
and 1

35. The sum of a number and 9.4

37. A number divided by 41

Evaluate the expression when $a = 2.5$, $b = 15$, and $c = 3.5$.

41. $a + b$

42. $b - c$

43. bc

44. $a + c$

45. $\frac{b}{a}$

46. $c - a$

47. $\frac{c}{a}$

48. ac

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1	13-29
2	30-33
3	36



• More Examples

Write the product using an exponent.

13. $32 \cdot 32$

14. $11 \cdot 11 \cdot 11$

15. $6 \cdot 6 \cdot 6 \cdot 6 \cdot 6$

16. $2 \cdot 2 \cdot 2 \cdot 2$

17. $(5.6)(5.6)(5.6)$

18. $(1.7)(1.7)$

19. $z \cdot z \cdot z$

20. $n \cdot n \cdot n \cdot n$

Write the power in words and as a repeated multiplication. Then evaluate the power.

21. 8^3

22. 2^5

23. 10^6

24. 12^3

25. 9^3

26. 4^4

27. $(0.2)^2$

28. $(0.6)^4$

Evaluate the expression when $n = 7$ and when $n = 0.4$.

30. n^2

31. n^3

32. n^4

33. n^5

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Example Exercises

1	10-13
2	14-18
3	19-27
4	28-31



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Evaluate the expression.

10. $47.7 - 12 \cdot 3$

11. $11 \cdot 7 - 9 \cdot 5$

12. $14 \div 7 + 36 \div 4$

13. $5.8(3) + 3(1.1)$

14. $\frac{36 - 12}{2 + 6}$

15. $\frac{9.8 + 2.2}{7 - 5}$

16. $5(21 - 3^2)$

17. $7[2.5 + 3(12 - 7)]$

18. $84 \div [(18 - 16) \cdot 3]$

Evaluate the expression when $x = 3$, $y = 4$, and $z = 5$.

19. $0.25y + x$

20. $0.25(y + x)$

21. $4(z - x)$

22. $\frac{6.5y}{x - 1}$

23. $x + \frac{24.4}{y}$

24. $7z - x^2$

25. $x + 2[z - (y - 1)]$

26. $(x + y)^2 - 3.6$

27. $y + (z - 1)^2$