

Exercises

Learn It Online
Homework Help Online
Exercises 1–21, 25, 27, 31, 39,
41, 43, 45

GUIDED PRACTICE

See Example 1 Simplify each expression.

1. $36 - 18 \div 6$

2. $7 + 24 \div 6 \times 2$

3. $62 - 4 \times (15 \div 5)$

See Example 2 4. $11 + 2^3 \times 5$

5. $5 \times (28 \div 7) - 4^2$

6. $5 + 3^2 \times 6 - (10 - 9)$

See Example 3 7. Coach Milner fed the team after the game by buying 24 Chicken Deals for \$4 each and 7 Burger Deals for \$6 each. Simplify $24 \times 4 + 7 \times 6$ to find the cost of the food.

INDEPENDENT PRACTICE

See Example 1 Simplify each expression.

8. $9 + 27 \div 3$

9. $2 \times 7 - 32 \div 8$

10. $45 \div (3 + 6) \times 3$

11. $(6 + 2) \times 4$

12. $9 \div 3 + 6 \times 2$

13. $5 + 3 \times 2 + 12 \div 4$

See Example 2 14. $4^2 + 48 \div (10 - 4)$

15. $100 \div 5^2 + 7 \times 3$

16. $6 \times 2^2 + 28 - 5$

17. $6^2 - 12 \div 3 + (15 - 7)$

18. $21 \div (3 + 4) \times 9 - 2^3$

19. $(3^2 + 6 \div 2) \times (36 \div 6 - 4)$

See Example 3 20. The nature park has a pride of 5 adult lions and 3 cubs. The adults eat 8 lb of meat each day and the cubs eat 4 lb. Simplify $5 \times 8 + 3 \times 4$ to find the amount of meat consumed each day by the lions.

21. Angie read 4 books that were each 150 pages long and 2 books that were each 325 pages long. Simplify $4 \times 150 + 2 \times 325$ to find the total number of pages Angie read.

PRACTICE AND PROBLEM SOLVING

Extra Practice

See Extra Practice for more exercises.

Simplify each expression.

22. $12 + 3 \times 4$

23. $25 - 21 \div 3$

24. $1 + 7 \times 2$

25. $60 \div (10 + 2) \times 4^2 - 23$

26. $10 \times (28 - 23) + 7^2 - 37$

27. $(5 - 3) \div 2$

28. $72 \div 9 - 2 \times 4$

29. $12 + (1 + 7^2) \div 5$

30. $25 - 5^2$

31. $(15 - 6)^2 - 34 \div 2$

32. $(2 \times 4)^2 - 3 \times (5 + 3)$

33. $16 + 2 \times 3$

Add parentheses so that each equation is correct.

34. $2^3 + 6 - 5 \times 4 = 12$

35. $7 + 2 \times 6 - 4 - 3 = 53$

36. $3^2 + 6 + 3 \times 3 = 36$

37. $5^2 - 10 + 5 + 4^2 = 36$

38. $2 \times 8 + 5 - 3 = 23$

39. $9^2 - 2 \times 15 + 16 - 8 = 11$

40. $5 + 7 \times 2 - 3 = 21$

41. $4^2 \times 3 - 2 \div 4 = 4$

42. **Critical Thinking** Jon says the answer to $1 + 3 \times (6 + 2) - 7$ is 25. Julie says the answer is 18. Who is correct? Explain.