

Translate into a variable expression.

1. the sum of 8 and y
2. a less than 16
3. t increased by 10
4. p decreased by 7
5. z added to 14
6. q multiplied by 13
7. 20 less than the square of x
8. 6 times the difference between m and 7
9. the sum of three-fourths of n and 12
10. b decreased by the product of 2 and b
11. 8 increased by the quotient of n and 4
12. the product of -8 and y
13. the product of 3 and the total of y and 7
14. 8 divided by the difference between x and 6
15. the product of t and the sum of t and 16
16. the quotient of 6 less than n and twice n
17. 15 more than one-half of the square of x
18. 19 less than the product of n and -2
19. the total of 5 times the cube of n and the square of n
20. the ratio of 9 more than m to m
21. r decreased by the quotient of r and 3
22. four-fifths of the sum of w and 10
23. the difference between the square of x and the total of x and 17
24. s increased by the quotient of 4 and s
25. the product of 9 and the total of z and 4
26. n increased by the difference between 10 times n and 9

Translate into a variable expression. Then simplify.

27. twelve minus a number

28. a number divided by eighteen

29. two-thirds of a number

30. twenty more than a number

31. the quotient of twice a number and nine

32. ten times the difference between a number and fifty

33. eight less than the product of eleven and a number

34. the sum of five-eighths of a number and six

35. nine less than the total of a number and two

36. the difference between a number and three more than the number

37. the quotient of seven and the total of five and a number

38. four times the sum of a number and nineteen

39. five increased by one-half of the sum of a number and three

40. the quotient of fifteen and the sum of a number and twelve

41. a number added to the difference between twice the number and four

42. the product of two-thirds and the sum of a number and seven

43. the product of five less than a number and seven

44. the difference between forty and the quotient of a number and twenty

45. the quotient of five more than twice a number and the number

46. the sum of the square of a number and twice the number

47. a number decreased by the difference between three times the number and eight

48. the sum of eight more than a number and one-third of the number