

Defining Word Problems: Translating Sentences to Equations/Inequalities Worksheet 3

Translate each sentence into an equation. Use x to represent the number.

- 1) Five more than a number is 17. _____
- 2) Five is 6 less than twice a number _____
- 3) If seven is subtracted from six times a number, the result is 10. _____
- 4) Ten more than number is 62. _____
- 5) The sum of three times a number and twelve is twenty. _____
- 6) The sum of a number and 7 is 35. _____
- 7) One-half of a number equals sixteen. _____
- 8) The sum of a number and thirteen is 22. _____
- 9) The sum of four and twice a number is 52. _____
- 10) Ten times a number is 420. _____
- 11) Five times a number is 120. _____
- 12) The sum of five and twice a number is 17. _____
- 13) If 3 times a number is decreased by 12, the result is 5. _____
- 14) Five more than a number is seventeen. _____
- 15) The sum of 6 times a number and fifteen is forty-two. _____
- 16) If 5 times a number is decreased by 12, the difference is 9. _____

Translate each sentence into an inequality. Use x to represent the number.

17) Five more than a number is less than 17.

18) Five is greater than 6 less than twice a number

19) If seven is subtracted from six times a number, the result is at least 10.

20) Ten more than number is no more than 62.

21) The sum of three times a number and twelve is fewer than twenty.

22) The sum of a number and 7 is no more than 35.

23) One-half of a number is less than sixteen.

24) The sum of a number and thirteen is greater than 22.

25) The sum of four and twice a number at least 52.

26) Ten times a number is at most 420.

27) Five times a number is fewer than 120.

28) The sum of five and twice a number is at most 17.

29) If 3 times a number is decreased by 12, the result is more than 5.

30) Five more than a number is at most seventeen.

31) The sum of 6 times a number and fifteen is no more than forty-two.

32) If 5 times a number is decreased by 12, the difference is at least 9.
