4-4 Writing Inequalities

Writing Inequalities from Word Problems:

1. Read phrase/problem carefully.
2. Identify key words/operations and values/variables. ⟵
3. Define variables {let x = _____}
4. Translate into an inequality.
5. Solve.
6. Verify to see if answer makes sense.
7. Answer word problems in a complete sentence including correct units.

Key words:
- more than/greater than
- less than/fewer than
- at most/no more than
- at least/no less than

Ex. 1: Solve each problem by writing and solving an inequality.

A. A difference of a number and 15 is no more than -8.

B. 18 is at least the product of -6 and a number.

C. Thirty-four is fewer than the quotient a number and negative 2.

D. The difference of a number and 15 is at most negative 10.