Section 1.4 Homework

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Part A

Write an equation or an inequality. Underline key words/phrases to translate.

3) The sum of 42 and a number n is equal to 51.

4) The difference of a number z and 11 is equal to 35.

5) The difference of 9 and the quotient of a number t and 6 is 5.

6) The sum of 12 and the quantity 8 times a number k is equal to 48.

8) The product of 4 and a number w is at most 51.

Set B

Check whether the given number is a solution of the equation or inequality.

Input the value and check if the solution works.

18) $9 + 4y = 17$ when $y=1$ 20) $\frac{k}{5} + 9 = 11$ when $k=10$

Input: Input:

Simplify: Simplify:

Solution?   Solution?

22) $\frac{x-5}{3} \geq 2.8$; 11   24) $y - 3.5 < 6$; 9

39) You are taking part in a charity walk, and you have walked 12.5 miles so far. Your goal is to walk 20 miles. How many more miles do you need to walk to meet your goal?

40) You buy a storage rack that holds 40 CDs. You have 27 CDs.
a) Write an inequality that describes how many more CDs you can buy and still have no more CDs than the rack can hold.

b) You buy 15 CDs. Will they still fit?

41) Eco-Challenge Fiji was a competition that included jungle trekking, ocean swimming, mountain biking, and river kayaking. In 2002, the U.S. team finished second about 6 hours after the winning team from New Zealand. The U.S. team finished in about 173 hours. What was the winning team's time?