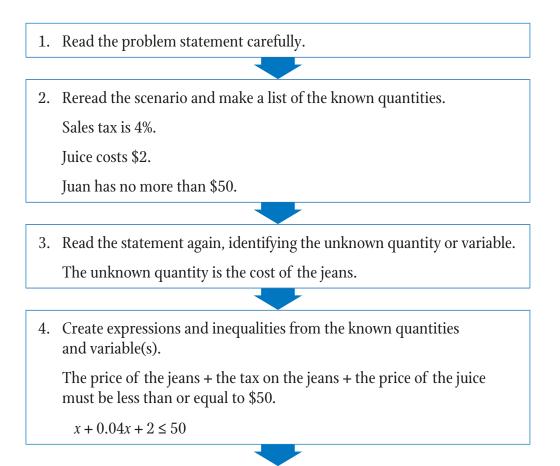
Instruction

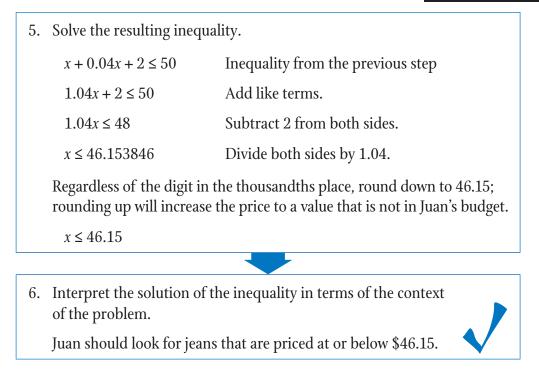
Guided Practice 2.1.2

Example 1

Juan has no more than \$50 to spend at the mall. He wants to buy a pair of jeans and some juice. If the sales tax on the jeans is 4% and the juice with tax costs \$2, what is the maximum price of jeans Juan can afford?

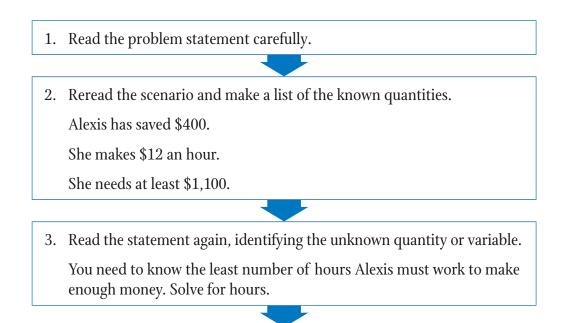


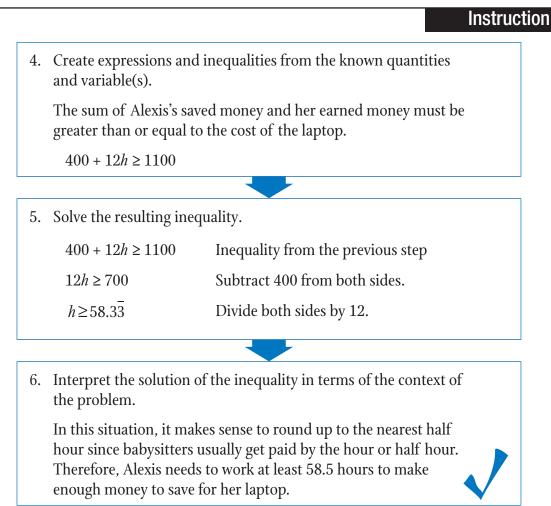
Instruction



Example 2

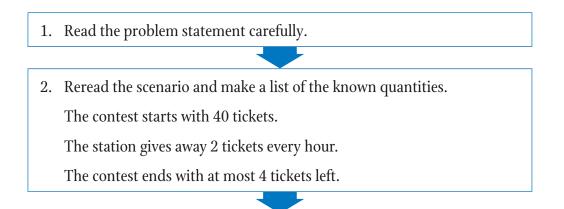
Alexis is saving to buy a laptop that costs \$1,100. So far she has saved \$400. She makes \$12 an hour babysitting. What's the least number of hours she needs to work in order to reach her goal?



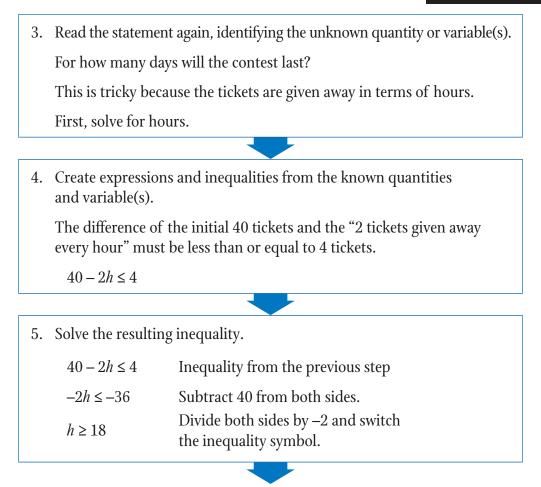


Example 3

A radio station is giving away 40 concert tickets. The station gives away 2 tickets every hour on the hour for a number of hours until there are at most 4 tickets left for a grand prize. If the contest runs from 11:00 A.M. to 1:00 P.M. each day, for how many days will the contest last?



Instruction



Instruction

6. Interpret the solution of the inequality in terms of the context of the problem.

The inequality is solved for the number of hours the contest will last. The contest will last at least 18 hours; that is, for 18 hours or more.

The problem asks for the number of days the contest will last. If the contest lasts from 11:00 A.M. to 1:00 P.M. each day, and tickets are given out on the hour, that is 3 hours per day. Convert the units.

18 hours •
$$\frac{1 \text{ day}}{3 \text{ hours}}$$

18 hours • $\frac{1 \text{ day}}{3 \text{ hours}} = 6 \text{ days}$

The contest will run for at least 6 days. Note that there are a total of 40 tickets to give away, so if the station gives away 6 tickets per day until there are at most 4 tickets left for a grand prize, then the longest the contest can last is 7 days. Thus, the contest will last for 6 or 7 days.