

Expenses The sophomore class is planning a picnic. The cost of a permit to use a city park is \$250. To pay for the permit, there is a fee of \$.75 for each sophomore and \$1.25 for each guest who is not a sophomore. Two hundred sophomores plan to attend. Write and solve an inequality to find how many guests must attend for the sophomores to pay for the permit.

$$\begin{array}{r}
 150 + x(1.25) \geq 250 \\
 -150 \quad \quad -150 \\
 \hline
 x(1.25) \geq 100 \\
 \frac{1.25x}{1.25} \geq \frac{100}{1.25} \\
 x \geq 80
 \end{array}$$

$$\begin{array}{r}
 200 \\
 \times .75 \\
 \hline
 150
 \end{array}$$

Explain the difference between "4 greater than x" and $4 > x$

$x + 4$

all #s
less
than
4

Sec 3-5

What is a compound in chemistry?

A compound is a substance formed when two or more chemical elements are chemically bonded together.

When two elements are connected to for

Section 3-5 Compound Inequalities

Compound Inequalities in Mathematics

Two inequalities connected with
one of the following words:

AND

OR