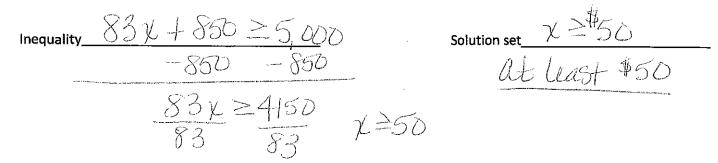


The 83 members of the Newman Middle School Band are trying to raise at least \$5,000 to buy new percussion instruments. They have already raised \$850. How much should each student still raise, on average, to meet the goal?

Let d represent the average amount each student should still raise.



Sun-Li has \$30 to spend at the carnival. Admission is \$5, and each ride costs \$2. What is the greatest number of rides she can ride?

Let r represent the number of rides Sun-Li can ride.

Inequality $5+2r \leq 30$ -5 = -5 $\frac{2r \leq 35}{2}$ 14 12.5

Solution set $r \leq 125$ at most 12 rides

Three students collected more than \$93 washing cars. They used \$15 to reimburse their parents for cleaning supplies. Then they divided the remaining money equally. How much did each student earn?

variable 1= # lanearned Inequality $\chi - 15 > 93$ X-15>279 $\chi > 294$

Solution set $\chi > 1.94$ More than \$294

Margie has \$100. She wants to buy a book for \$20 and some CDs for \$15 each. At most, how many CDs can Margie buy?

variable $\chi = # of CDS$ Inequality $20 + 15 \chi \le 100$ -20 -20 $\frac{15\chi}{15} \leq 30$ ×≤57

Solution set $\chi \leq 5.3$ at most 5 cDs

Manny needs to buy 5 work shirts that are each the same price. After he uses a \$20 gift certificate, he can spend no more than \$50. What is the maximum amount that each shirt can cost? $Variable \quad \chi = \frac{1}{2} of \rho_A$. Shirt

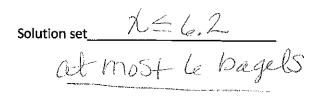
Inequality $5\chi - 20 \le 50$ + 20 + 20 Solution set $\chi \leq 15$ at most #15 $\frac{5\chi}{5} \frac{470}{5}$ $Y \leq 14$

Mr. Monroe keeps a bag of small prizes to distribute to his students. He likes to keep at least twice as many prizes in the bag as he has students. The bag currently has 79 prizes in it. Mr. Monroe has 117 students. How many more prizes does he need to buy?

variable 1 = # of prizes needed Inequality $\chi + 79 \ge 117(2)$ $-79 \ge -79$ Solution set <u>X=155</u> at least 155 prizes $\chi \ge 155$

Rico has \$5.00. Bagels cost \$0.65 each, and a small container of cream cheese costs \$1.00. What is the greatest number of bagels Rico can buy () if he also buys one small container of cream cheese?

variable X= # of bagels Inequality $6651 + 1.00 \le 5.00$ -1.00 -1.00 .65× = 4.00 .65 × = 4.00 $\chi = 6.2$



The 35 members of a drill team are trying to raise at least \$1,200 to cover travel costs to a training camp. They have already raised \$500. How much should each member still raise, on average, to meet the goal?

variable
$$\chi = # la. member$$

 $(equality 35\chi + 500 \ge 1,200)$
 $-500 - 500$
 $35\chi \ge 700$
 $35\chi \ge 700$
 $35\chi \ge 700$
 $\chi \ge 20$
 $\chi \ge 20$
 $\chi \ge 20$
 $\chi \ge 20$
 $\chi \ge 20$

Fifty students in the seventh grade are trying to raise at least \$2,000 for sports supplies. They have already raised \$750. How much should each student raise, on average, in order to meet the goal?

variable
$$\chi = \frac{1}{2} la_{1} Student$$

Inequality $50\chi + 750 \ge 2,000$
 $-750 - 750$
 $50\chi \ge 1,250$
 $50\chi \ge 1,250$
 $\chi \ge 25$

Solution set $\chi \ge 25$ Cet least \$25

A concert is being held in a gymnasium that can hold no more than 450 people. The bleachers seat 60 people. There will also be 26 rows of chairs set up. At most, how many people can sit in each row?

variable <u>Y = # people in a nae</u> $\frac{\text{Inequality} 26\chi + 60 \leq 450}{-60}$ $\frac{26\chi}{26} \stackrel{390}{=} \frac{390}{26}$ 2415

Solution set $\chi \leq 15$ at most 15 people

The 23 members of the Westview Journalism Club are trying to raise at least \$2,100 to buy new publishing design software. The members have already raised \$1,180. How much should each student still raise, on average, to meet the goal?

variable X = \$ for can Student $\frac{23\chi \ge 920}{23}$

Solution set $\frac{2240}{40}$

Business Darcy earns a salary of \$1,400 per month, plus a commission of 4% of her sales. She wants to earn a total of at least \$1,600 this month. What is the least amount of sales she needs?

variable $\chi = atmt of Salles$ Inequality $04\chi + 1,400 \ge 1,600$ -1400 - 1400 at least # 5,000 at least # 5,000 $\chi \ge 5,000$ $\chi \ge 5,000$