





this point is not justified because you cannot have 25/3 cars....

5.
$$\chi = 3 chool friends$$

 $y = karate friends$
 $\chi = \chi = 460$
 $\chi = 2y$
 $\chi = 2y$
 $\chi = 2y$
 $\chi = 3x = 2y$





9. A fast-food concession stand sells vegetarian hot dogs and Polish sausages.

· Daily sales can be as high as 450 hot dogs and sausages combined.

• The stand always sells at least twice as many Polish as vegetarian hotdog sold.

Vegetarian hot dogs are sold for \$2.50, and Polish sausages are sold for \$3.50.

Create a model that could be used to determine the combination of hot dogs and sausages that will result in maximum sales.



10. A store has requested a manufacturer to produce pants and sports jackets. For materials, the manufacturer has 750 m² of cotton textile and 1,000 m² of polyester. Every pair of pants needs 1 m² of cotton and 2 m² of polyester. Every jacket needs 1.5 m² of cotton and 1 m² of polyester. The price of the pants is fixed at \$50 and the jacket, \$40. What is the number of pants and jackets that the manufacturer must give to the stores so that these items obtain a maximum sale?

Let x= #parts 315,250 $x + 1.5y \le 750$ $2x + y \le 1000$ 700 800 900 1000 11 300 400 SOU DO 100 200 DN P= 50x+40y (50010) P= 25000 (61500) P= 20000 (315,250) P= 28750 mox profit

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