

Name : _____

Inequalities Word Problem Worksheet

Establish a variable, write an inequality to represent the scenario, and solve.

- 1 Ryan is a wrestler. He currently weighs 200lbs. If he cuts down 2 lbs per week how long will it take him to weigh less than 170 lbs?

- 2 Keith has \$25. A song Mp3 download costs \$0.75. How many songs can he download and still have \$13 left to spend?

- 3 Joe enters a race where he has to cycle and run. He cycles a distance of 25 km, and then runs for 20 km. His average running speed is half of his average cycling speed. If Joe completes the race in less than $2\frac{1}{2}$ hours, what can be his average speeds?

- 4 The cost of a gallon of orange juice is \$3.50. What are the maximum gallons of orange juice you can buy for \$15?

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Answers

- 1 Ryan is a wrestler. He currently weighs 200lbs. If he cuts down 2 lbs per week how long will it take him to weigh less than 170 lbs?

Ans: $200 - 2x < 170$
More than 15 weeks

- 2 Keith has \$25. A song Mp3 download costs \$0.75. How many songs can he download and still have \$13 left to spend?

Ans: 16

- 3 Joe enters a race where he has to cycle and run. He cycles a distance of 25 km, and then runs for 20 km. His average running speed is half of his average cycling speed. If Joe completes the race in less than $2\frac{1}{2}$ hours, what can be his average speeds?

Ans: Greater than 26 km/h

- 4 The cost of a gallon of orange juice is \$3.50. What are the maximum gallons of orange juice you can buy for \$15?

Ans: 4.2857 gallons