

c) Is the ring pure gold? Explain how you arrived at your conclusion.

8. The units of the chain system of measure, used by surveyors, are as follows:

7.92 inches = 1 link

100 links = 1 chain

10 chains = 1 furlong

80 chains = 1 mile

The distance of the Kentucky Derby, a classic horse race, is 1.25 miles. How is this distance expressed in furlongs?

9. The displacement (total volume of the cylinders of the engine in a Ford Mustang) is 5.0 L. Convert this to cubic inches.

10. A cube that has a length of 1 cm on each side has a volume of 1 cm^3 . How many cubic centimeters are in 1 cubic meter?