A block of gold measures 2.5 cm x 1.5 cm x 6.5 cm the density of gold is 19.3 g/cm cubed. calculate the mass of this block of gold

Solution:

1.V=S×H;

V=2.5×1.5×6.5=24.375 cm3;

2. 19.3 grams-1 cm3

    x grams-24.375 cm3

x=19.3×24.375=470.44

m(gold)=470.44 grams

Answer:m(gold)=470.44 grams.