Units Conversion Practice

Date: HNSWELS

Complete the indicated units conversions. Be sure to keep the same number of significant digits after the conversion. Show your work!!

a) 19200 nm = ? mm

0.0192 mm 0.0192 mm 1.92 ×10-2 mm b) 0.0000035 Gg = ? hg

35 hg

c) $764\,000 \, \mu m = ? \, dm$

7,64 dm

d) $12 \, \text{km} = ? \, \text{cm}$

1,200,000 cm 1,2 ×106 cm

e) $0.084 \text{ km}^2 = 2 \text{ hm}^2$

* km -> hm FACTOR = x 10 Km2 -> km2 FACTOR = (10)2 0.084 ×100 = 8.4 hm2 f) $894\ 300\ \text{mm}^3 = ?\ \text{dam}^3$

* mm -> dm FACTOR = X10-R * mm 3 -> dm3 FACTOR = (10-3)3 = 10-6 894 300 ×10-6 = 0.8943

g) 7.6 x 10 7 s = ? years

19AR = 365 x 24 x 60 x 60 5

= 315360008 15 = 3.171 ×10-8 year. => 7.6×07 ×3.171×0-8 = 2.41. YEALS

h) $152 \, \text{km/h} = ? \, \text{m/s}$

152 x 1000 = 422 m/s