Converting Between SI and Imperial

Note Title 5/19/2011

Exact Conversions

1 in = 2.54 cm 1 ft. = 30.48 cm

1 yard = 0.9144 m

Approximate Conversions

1 mm $\cong$ 0.0394 in

1 cm $\cong$ 0.3937 in

1 m $\cong$ 1.094 yd.

$1\ m \cong 3.281\ FT.$

$1\ km \cong 0.6214\ MI$

$1\ MI \cong 1.609\ km$

IE SPEED OF LIGHT IS APPROX 186,000 MI/S

HOW MANY METERS PER SEC.

SOLN

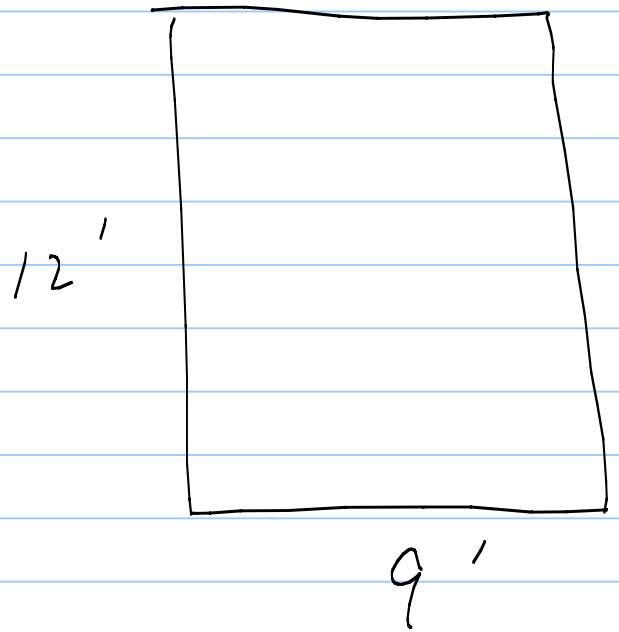
$$\frac{MI}{km}\quad \frac{1}{1.609} = \frac{186{,}000}{x}$$

$$x = 1.609 \times 186{,}000$$

$$x = 299{,}274\ km/s$$

$299,274 \times 1000 = 299,274,000 \text{ m/s}$

IE



HOW MANY SQUARE METERS.

$9' = 2.74$ METERS

$9 \div 3.281 = 2.743$ m

$12 \div 3.281 = 3.657$ m

$2.743 \times 3.657 = 10.031\ m^2$

$(108\ Ft^2)$

$\frac{1}{3.281} : \frac{x}{9}$

H/W Pg 42 # 1-4, 6-8