

⑧ $\frac{446 \text{ lbs}}{\text{ft}^3} \rightarrow \frac{\text{g}}{\text{cm}^3}$

$\frac{1 \text{ in}}{2.54 \text{ cm}}$ $\frac{1 \text{ lb}}{453.6 \text{ g}}$

$\frac{446 \text{ lbs}}{\text{ft}^3}$	$\frac{453.6 \text{ g}}{1 \text{ lb}}$	$\frac{1 \text{ ft}^3}{(12)^3 \text{ in}^3}$	$\frac{1 \text{ in}^3}{(2.54)^3 \text{ cm}^3}$
---------------------------------------	--	--	--

$\frac{1}{2} = \frac{2}{4} = \frac{2^3}{4^3}$

Sep 21-1:13 PM

446 lbs	1 ft	1 ft	1 ft
ft^3	12 in	12 in	12 in

Sep 21-1:18 PM

20 $\frac{0.791 \text{ g CH}_3\text{OH}}{1 \text{ cm}^3}$ } $\frac{0.791 \text{ g} \times \text{cm}^{-3}}{1}$
 \Downarrow
 $\frac{0.791 \text{ g}}{\text{cm}^3}$

$1 = 215 \text{ g CH}_3\text{OH}$

Unit to find goes on TOP!

1 ml	1 l	215 g CH ₃ OH
0.791 g CH₃OH	1000 ml	1

Sep 21-1:22 PM

21 $\frac{8.34 \text{ lbs H}_2\text{O}}{1 \text{ gal}}$ $\boxed{S_g H_g = 13.5}$
 — lbs is 1 gal H₂O.

Specific gravity

~~$\frac{13.5}{1} = \frac{X \text{ lbs H}_2\text{O}}{8.34 \text{ lbs H}_2\text{O}}$~~

$\frac{D_{\text{substance}}}{D_{\text{H}_2\text{O}}} = 13.5$

$112.5 \text{ g H}_2\text{O}$

Sep 21-1:27 PM

$$F = \frac{9}{5}C + 32$$

$$= \left(\frac{9}{5} \times \frac{20}{1} \right) + 32$$

$$= 36 + 32$$

$$F = 68^\circ F$$

Sep 21-1:31 PM

(25) $3.2 \times 10^{-6} \text{ g oleic acid}$

Area = $l \times w$
 20 cm^2

$$D = \frac{\text{mass}}{\text{area} \times h}$$

$$\frac{0.895}{1} = \frac{3.2 \times 10^{-6} \text{ g}}{20 \times h}$$

$$D = \frac{0.895 \text{ g oleic}}{1 \text{ ml}}$$

$$D = \frac{\text{mass}}{\text{Volume}}$$

$$V = \text{Area} \times h$$

$$V = l \times w \times h$$

Sep 21-1:35 PM

(21)

$$\text{Specific gravity} = \frac{D_{\text{substance}}}{D_{\text{H}_2\text{O}}}$$

$$\frac{13.5}{1} = \frac{X \frac{\text{lbs}}{\text{gal}}}{8.34 \frac{\text{lbs}}{\text{gal}}}$$

$$X = 112.59 \frac{\text{lbs}}{\text{gal}}$$

Sep 21-2:05 PM

(25)

3.2×10^{-6} g oleic acid

Area = 20 cm²

$$\frac{D}{1} = \frac{0.895 \text{ g}}{1 \text{ ml}}$$

Mass

Volume

$$\text{Volume} = l * w * h$$

$$\text{Area} * h$$

$$20 * h$$

$$\frac{D}{1} = \frac{\text{mass}}{\text{Volume}}$$

$$\frac{0.895 \text{ g}}{1 \text{ ml}} = \frac{3.2 \times 10^{-6} \text{ g}}{20 * h}$$

Sep 21-2:10 PM

(11) $\left(\frac{31}{45.20} \right) + 14.000$

0.6858407

10.69 + 14.000

2 sig figs

14.69

Sep 21-2:24 PM

(10) $F = \frac{9}{5} C + 32$

Sep 21-2:29 PM

(20)
$$\frac{0.791 \text{ g CH}_3\text{OH} \times \text{cm}^{-3}}{1} \Rightarrow \boxed{\frac{0.791 \text{ g CH}_3\text{OH}}{\text{cm}^3}}$$

$\text{cm}^3 \rightarrow \text{ml}$

$\boxed{\#l = 215 \text{ g CH}_3\text{OH}}$? $\frac{1}{a^2} = \frac{a^{-2}}{1}$

UNIT TO FIND GOES ON TOP

1 ml	1 l	215 g CH ₃ OH	=
0.791 g CH₃OH	1000 ml	1	

Sep 21-2:31 PM

(25) mass 3.2×10^{-6} g oleic acid

$1 \text{ ml} = 1 \text{ cm}^3$

Area = 20 cm^2
 $l \times w$
 $\text{cm} \times \text{cm}$

$$\frac{D}{l} = \frac{0.895 \text{ g oleic acid}}{\text{cm}^3}$$

Density = $\frac{\text{Mass}}{\text{Volume}}$
 $l \times w \times h$

$$\frac{0.895 \text{ g/ml}}{1} = \frac{3.2 \times 10^{-6}}{20 \times h}$$

Sep 21-2:35 PM