

⑩

$$\frac{1,000,000 \text{ sec}}{1} \cdot \frac{1 \text{ min}}{60 \text{ sec}} \cdot \frac{1 \text{ hr}}{60 \text{ min}} \cdot \frac{1 \text{ day}}{24 \text{ hr}} \cdot \frac{1 \text{ yr}}{365 \text{ days}}$$

$$\frac{1,000,000 \text{ yr}}{31,536,000} = 0.0317 \text{ years}$$

Aug 15-1:55 PM

$$12 \text{ L} \cdot \frac{1.05 \text{ gal}}{1 \text{ L}} \cdot \frac{1 \text{ gal}}{4 \text{ gal}} \cdot \frac{2 \text{ bar}}{73 \text{ gal}}$$

$$= \frac{25.2 \text{ barrels}}{292} = 0.08630137 \text{ barrels}$$

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$$\frac{302,400 \text{ drops}}{1 \text{ wk}} \cdot \frac{52 \text{ wk}}{1 \text{ yr}} \cdot \frac{100 \text{ mL}}{575 \text{ drops}}$$

$$= \frac{1,572,480,000}{575}$$

$$= 2,734,747.826 \text{ mL/yr}$$

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$$\frac{1 \text{ drop}}{2 \text{ sec}} \cdot \frac{60 \text{ sec}}{1 \text{ min}} \cdot \frac{60 \text{ min}}{1 \text{ hr}} \cdot \frac{24 \text{ hr}}{1 \text{ day}} \cdot \frac{365 \text{ day}}{1 \text{ yr}} \cdot \frac{100 \text{ mL}}{575 \text{ drops}}$$

$$= \frac{3,153,600,000}{1150}$$

$$= 2,742,260.87 \text{ mL/yr}$$

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#14

$$5400 \text{ in} \cdot \frac{1 \text{ ft}}{12 \text{ in}} \cdot \frac{1 \text{ mi}}{5280 \text{ ft}}$$

$$= 0.0852 \text{ mi}$$

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$$1 \text{ wk} \cdot \frac{7 \text{ days}}{1 \text{ wk}} \cdot \frac{24 \text{ hrs}}{1 \text{ day}} \cdot \frac{60 \text{ min}}{1 \text{ hr}} \cdot \frac{60 \text{ sec}}{1 \text{ min}}$$

$$= 9,676,800 \text{ sec}$$

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$$54 \text{ yd} \cdot \frac{3 \text{ ft}}{1 \text{ yd}} \cdot \frac{12 \text{ in}}{1 \text{ ft}} \cdot \frac{2.54 \text{ cm}}{1 \text{ in}} \cdot \frac{10 \text{ mm}}{1 \text{ cm}}$$

$$= 49,377.6 \text{ mm}$$

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$$\frac{36 \text{ cm}}{1 \text{ sec}} \cdot \frac{1 \text{ in}}{2.54 \text{ cm}} \cdot \frac{1 \text{ ft}}{12 \text{ in}} \cdot \frac{1 \text{ mi}}{5280 \text{ ft}}$$

$$\cdot \frac{60 \text{ sec}}{1 \text{ min}} \cdot \frac{60 \text{ min}}{1 \text{ hr}} =$$

$$0.805 \text{ mi/hr}$$

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5.

$$\frac{1.09 \text{ g}}{1 \text{ mL}} \cdot \frac{1 \text{ lb}}{454 \text{ g}} \cdot \frac{946 \text{ mL}}{1 \text{ qt}} \cdot \frac{4 \text{ qt}}{1 \text{ gal}} =$$

$$= 9.085 \text{ lbs/gal}$$

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$$1.583 \text{ ft}$$

⑦

$$2133.6 \text{ cm}$$

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⑧

$$\frac{4.22 \text{ g}}{1 \text{ cm}} \cdot \frac{2.54 \text{ cm}}{1 \text{ in}} \cdot \frac{12 \text{ in}}{1 \text{ ft}} \cdot \frac{1 \text{ lb}}{454 \text{ g}}$$

$$= 0.2833 \text{ lb/ft}$$

$$\frac{128.6256}{454} =$$

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$$\frac{32 \text{ ft}}{1 \text{ sec}} \cdot \frac{60 \text{ sec}}{1 \text{ min}} \cdot \frac{12 \text{ in}}{1 \text{ ft}} \cdot \frac{2.54 \text{ cm}}{1 \text{ in}} \cdot \frac{1 \text{ m}}{100 \text{ cm}}$$

$$= 585.216 \text{ m/min}$$

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$$130 \text{ lb.} \cdot \frac{1 \text{ drop}}{10 \text{ lb}} =$$

$$\frac{13 \text{ drops}}{4 \text{ doses}} = 3.25 \text{ drops/dose}$$

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$$\frac{\$14.78}{12 \text{ slices}} \cdot \frac{4 \text{ slices}}{1 \text{ person}} \cdot \frac{15 \text{ people}}{1}$$

→ \$73.90  
→ NO

Aug 15-3:15 PM

14

$$\frac{\$1.88 \text{ pack}}{8 \text{ pens}} \cdot \frac{3 \text{ pens}}{1 \text{ student}} \cdot \frac{28 \text{ students}}{1}$$

= \$19.74

Aug 15-3:20 PM

15.

.00000570

16.  $13,406,190 \text{ pm} \cdot \frac{4 \text{ g}}{1 \text{ pm}} \cdot \frac{1 \text{ lb}}{454 \text{ g}}$

= 118,116.215 lbs

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