

## Chapter 4.4 Working with units

50 l  $\rightarrow$  GALLONS

CHAPTER 4.4

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EX1  $\frac{50 \cancel{\text{l}}}{1} \times \frac{1 \text{ (G)}}{3.785 \cancel{\text{l}}} = \boxed{13.21 \text{ G}}$        $\frac{2}{4} = \frac{1}{2}$

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EX2  $\frac{63 \text{ BEATS}}{1 \text{ MIN}} \rightarrow \frac{\text{BEATS}}{\text{DAY}}$

$\frac{63 \text{ BEATS}}{1 \text{ MIN}} \times \frac{60 \text{ MIN}}{1 \text{ HRS}} \times \frac{24 \text{ HRS}}{1 \text{ DAY}} = \boxed{\frac{90,720 \text{ BEATS}}{1 \text{ DAY}}}$

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PROB #1)  $42 \text{ ft}^3 \rightarrow \square \text{ GALLONS}$

$12^3 \text{ in}^3 = \text{cube}$   
 $1728 \text{ in}^3 = 1 \text{ ft}^3$

$\frac{42 \cancel{\text{ft}^3}}{1} \times \frac{1728 \cancel{\text{in}^3}}{1 \cancel{\text{ft}^3}} \times \frac{1 \text{ GAL}}{231 \cancel{\text{in}^3}} =$

$\boxed{= 314.2 \text{ GALL}} \quad \text{yellow pencil}$

$$5a) \frac{4 \text{ mi}}{1 \text{ min}} \times \frac{3 \text{ min}}{180 \text{ sec}} =$$

$$b) \frac{34 \text{ mi}}{1 \text{ Gall}} \times \frac{2 \text{ gal}}{1 \text{ hr}} \times \frac{1}{2} \text{ hr} \\ 30 \text{ min}$$

6) 3 hrs 54 min

$$3 \frac{54}{60} \text{ hrs} = 3.9 \text{ hrs}$$

$$\frac{3.9 \text{ hrs}}{1 \text{ day}} \times \frac{365 \text{ days}}{1 \text{ year}} = \boxed{1423.5 \frac{\text{hours}}{\text{year}}}$$