A1

HW11

1. a) $x = 3.25(15.2)$
$x = 49.4\text{ ft}$

b) $1.6(25) = x$
$40\text{ km} = x$

c) $200 = 0.926x$
$215.98\text{ yrds} = x$

d) $350 = 0.6x$
$583.3\text{ km} = x$

2. 3min 53.43 sec. → 233.43 sec.

$\frac{1\text{ mile}}{233.43\text{sec}} \left(\frac{5280\text{ft}}{1\text{mile}} \right) = 22.62\text{ ft/sec}$

4. a) $\frac{1\text{ ounce}}{28.4g} = \frac{8\text{ ounce}}{x}$

$x = 8(28.4)$
$x = 227.2\text{ grams}$

b) $\frac{1}{28.4} = \frac{x}{50}$

$50 = 28.4x$
$x = 0.704\text{ ounces}$

c) $\frac{1}{28.4} = \frac{160}{x}$
$x = 28.4(160)$
$x = 4{,}544\text{ g.}$

6. a) $\frac{3\text{lb}}{30\text{days}} = 0.1\text{ lb/day}$

b) $\frac{5\text{lb}}{45\text{days}} = 0.11\text{ lb/day}$

c) Crystals

8. a)

yrd	1	2	3	4	5
ft	3	6	9	12	15

b) 3 feet

c) 1/3

a) $\frac{1}{3} = \frac{150}{x}$

$x = 3(150) = 450\text{ ft.}$

10. a) $\frac{12}{64} = \frac{x}{8 \cdot 120}$

$\frac{12}{64} = \frac{x}{960}$

$12(960) = 64x$

$x = \frac{180}{12}$ ~~cans~~

$\boxed{15\text{ cans}}$

a) $\frac{1}{28.4} = \frac{x}{100}$

$100 = 28.4x$

$x = 3.52\text{ ounces}$

10b) $\frac{12}{64} = \frac{x}{1}$

$12 = 64x$

$\boxed{0.19\text{ oz} = x}$

c) $\frac{12 \text{ concentrate}}{64 \text{ lemonade}}$

d) $\frac{12}{64} = \frac{16}{x}$

$64(16) = 12x$

$x = 85.\overline{3}$ oz of lemonade