Download this PDF to your computer and go to
www.livescribe.com/player
On iOS, open the PDF in Livescribe+.

2.2.13

One number is 7 times a first number.

A third number is 100 more than the first number.

If the sum of the three numbers is 397, find the numbers.

$$\boxed{\cancel{2x}} + \boxed{7\cdot\cancel{2x}} + \boxed{\cancel{2x}+100} = 397$$

guess 1st number

$$x + 7x + x + 100 = 397$$

livescribe

2.2.13

One number is 7 times a first number.

A third number is 100 more than the first number.

If the sum of the three numbers is 397, find the numbers.

$x + 7x + x + 100 = 397$

guess 1st number

3, 5, 7

The sum of three consecutive odd integers is 117. Find the integers.

$x + (x+2) + (x+4) = 117$

$x + x + 2 + x + 4 = 117$

$3x + 6 = 117$

$3x = 111$

$x = 37$

37 | 39 (37+2) | 41 (37+4)

§2.3 Formulas and Problem Solving

(2.3.19) Solve $r = \frac{m}{2}(b+k)$ for k

$$2 \cdot r = 2 \cdot \frac{m}{2}(b+k)$$

$$2r = \frac{2}{1} \cdot \frac{m}{2}(b+k)$$

$$2r = m(b+k)$$

$$2r = mb + mk$$

$$\frac{2r - mb}{m} = \frac{mk}{m}$$

$$\frac{2r-mb}{m} = k$$

$$3 = 5(4+6)$$

$$2 \cdot 3 = 2 \cdot 5(4+6)$$

$$6 = 10(4+6)$$

LY → n

2.325 Complete the table and find the balance F if $4300 is invested at an annual percentage rate of 3% for 10 years and compounded n times a year.

n	annually	monthly	daily
	1	12	365
F	5778.84	$5802.22	$5811.32

$F = P\left(1 + \frac{r}{n}\right)^{nt}$

$4300\left(1 + \frac{(0.03)}{(1)}\right)^{(1 \cdot 10)}$

$4300(1+((0.03)/(1)))\wedge(1*10)$

F = ?
P = 4300
r = 3% → 3(0.01) = 0.03
n = 1
t = 10

F = $5778.84

2.331 The day's high temperature in Orlando, FL was recorded as 77°F. Use the formula $C = \frac{5}{9}(F-32)$ to write 77°F as degrees Celsius

$C = \frac{5}{9}(77-32)$

$C = \frac{5}{9}(45)$

$C = \frac{5}{9} \cdot \frac{45}{1}$

$C = 25$

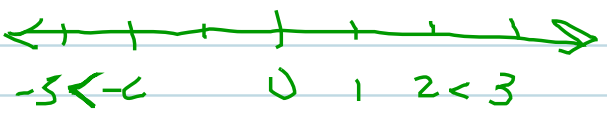
§2.4 Linear Inequalities and Problem Solving

$2 < 3$

Multiply by -1

$2 \cdot -1 > 3 \cdot -1$

$-2 > -3$



$2 < 3$

$3 > 2$

2.4.31 Solve the inequality

$$\frac{-5x+3}{4} - \frac{2x-5}{5} \geq -2 \qquad \text{LCD} = 20$$

$$20\left(\frac{-5x+3}{4} - \frac{2x-5}{5}\right) \geq 20(-2)$$

$$\frac{20}{1} \cdot \frac{-5x+3}{4} - \frac{20}{1} \cdot \frac{2x-5}{5} \geq -40$$

$$5(-5x+3) - 4(2x-5) \geq -40$$

$$-25x+15 \quad -8x+20 \geq -40$$

$$-33x + 35 \geq -40$$

$$-33x \geq -40 - 35$$

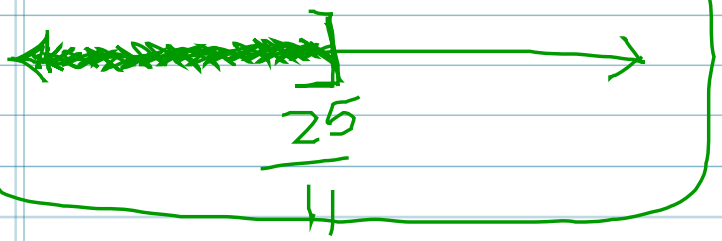
$-33x \geq -40 - 35$

$\frac{-33x}{-33} \geq \frac{-75}{-33}$

$x \leq \frac{75 \div 3}{33 \div 3}$

$x \leq \frac{25}{11}$

$\left(-\infty, \frac{25}{11}\right]$



$\frac{75 \div 3}{33}$

totally different problem

$\frac{25}{11} \leq x$

$x \geq \frac{25}{11}$

$\left[\frac{25}{11}, \infty\right)$

"an average of 70 or higher"

average $\geq$ 70

73 75
80 150
70

$$\frac{62+82+66+66+\square+\square}{6} \geq 70$$

$$\frac{62+82+66+66+f+f}{6} \geq 70$$

Now follow 5 steps to solve for f
(learning workbook page 20)