

7.1.4

Hwk

7-45)

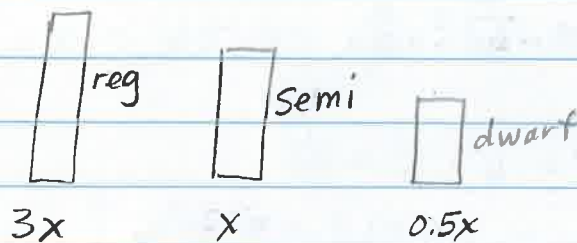
↓ calories by 15%

currently eats 2800 cal/day

method 1:  $(0.15)(2800) = 420$      $2800 - 420 = 2380$  cal. per day

method 2:  $100\% - 15\% = 85\%$      $(2800)(.85) = 2380$  cal/day

7-46)



together grew 27 in.

$$3x + 0.5x + x = 27$$

$$4.5x = 27$$

$$4\frac{1}{2}x = 27$$

$$\frac{9}{2}x = 27$$

$$\left(\frac{2}{9}\right)\left(\frac{9}{2}x\right) = 27 \cdot \left(\frac{2}{9}\right)$$

$$x = \frac{54}{9}$$

$$x = 6$$

dwarf ( $0.5x$ ) grew 3 in    semi dwarf grew ( $x$ ) = 6 in  
reg tree ( $3x$ ) grew 18 in.

7-47) saved \$30, which is 40% of total cost.

$$40\% \text{ of } x = 30$$

$$\frac{(0.40)(x)}{0.40} = \frac{30}{0.4}$$

$$x = \$75 \text{ total cost of calculator}$$

7-48)

a) 24 (7+10+4+1+2)

b)  $P(\text{more than 10 yrs.}) = \frac{7}{24} = 29\%$

d)  $P(\text{fewer than 5 yrs}) = \frac{7}{24}$

7-49)

a)  $P(5 \text{ or } 3) = \frac{2}{6} = \frac{1}{3}$

b)  $P(5 \text{ and } 3) = \frac{1}{6} \cdot \frac{1}{6} = \frac{1}{36}$

c)  $P(12) = \frac{1}{36}$

+	1	2	3	4	5	6
1	2	3	4	5	6	7
2	3	4	5	6	7	8
3	4	5	6	7	8	9
4	5	6	7	8	9	10
5	6	7	8	9	10	11
6	7	8	9	10	11	12

7-50) Checkpoint 7A

a)  $4x^2 + 3x - 7 + (-2x^2) - 2x + (-3)$

$4x^2 + (-2x^2) + 3x - 2x - 7 + (-3)$

$2x^2 + x - 10$

b)  $-3x^2 - 2x + 5 + 4x^2 - 7x + 6$

$-3x^2 + 4x^2 - 2 - 7x + 5 + 6$

$x^2 - 9x + 11$