

7.1.3

HWK

7-33) 25.7 Kwh (Kilowatt hours) per day
reduce 20%

$$(25.7)(0.2) = 5.14 \text{ Kwh} \quad 25.7 - 5.14 = 20.56 \text{ Kwh}$$

OR

$$100\% - 20\% = 80\% \quad (0.8)(25.7) = 20.56 \text{ Kwh}$$

7-34)

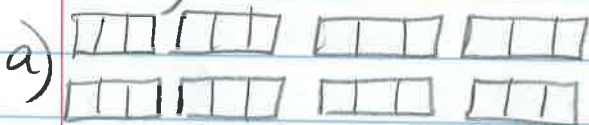
a) $(-1) + 4x + 2 + 2x + x$
 $(-1) + 2 + 4x + 2x + x$
 $1 + 7x$

b) $-8x + 4 + (-3) + 10x$
 $-8x + 10x + 4 + (-3)$
 $2x + 1$

c) $(-4) + 1x^2 + 3x + 4$
 $-4 + 4 + 1x^2 + 3x$
 $1x^2 + 3x$

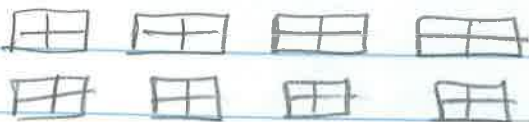
d) $2(3x - 2)$
 $6x - 4$

7-35) $8 \div \frac{1}{3}$



How many thirds? 24

b) $8 \div \frac{1}{4}$



How many fourths? 32

7-36)

Country	Speed Limits in Km/hr			mph
	Country Rds	Motorway		
Aust.	100	110	→	(100)(0.6) = 60 (110)(0.6) = 66
S.A.	100	120	→	(100)(0.6) = 60 (120)(0.6) = 72
G.B.	96	112	→	(96)(0.6) = 57.6 (112)(0.6) = 67
Turkey	90	90	→	(90)(0.6) = 54 (90)(0.6) = 54

Km = 0.6 miles

7-37)

$$a) 18 \div \frac{3}{4} = \frac{18}{1} \cdot \frac{4}{3} = 24$$

$$b) \frac{2}{3} (9-6) + 40$$

$$\frac{2}{3} \cdot 3 + 40$$

$$\frac{6}{3} + 40$$

$$2 + 40$$

$$42$$

$$c) 15 \div 5 + \frac{1}{2} \cdot \left(-\frac{4}{7}\right)$$

$$3 + \frac{1}{2} \cdot \left(-\frac{4}{7}\right)$$

$$3 + -\frac{4}{14}$$

$$3 + -\frac{2}{7}$$

$$3 - \frac{2}{7} = \frac{21}{7} - \frac{2}{7} = \frac{19}{7} =$$

$$2\frac{5}{7}$$

$$d) -\frac{7}{10} + \left(-\frac{5}{12}\right) - \left(\frac{1}{4}\right)$$

$$-\frac{42}{60} + -\frac{25}{60} - \frac{15}{60}$$

$$-\frac{67}{60} - \frac{15}{60}$$

$$-\frac{67}{60} + \left(-\frac{15}{60}\right)$$

$$-\frac{82}{60} = -1\frac{22}{60} = -1\frac{11}{30}$$

$$\frac{4}{60} \\ \frac{4}{2}$$

$$82$$

$$60$$

$$22$$

$$e) 4.25 - 7.06$$

$$4.25 + (-7.06)$$

$$-2.81$$

$$7.06$$

$$-4.25$$

$$2.81$$

$$f) \frac{7}{8} - \left(-\frac{1}{10}\right) + \left(-\frac{3}{5}\right)$$

$$\frac{35}{40} + \left(+\frac{4}{40}\right) + \left(-\frac{24}{40}\right)$$

$$\frac{39}{40} + \left(-\frac{24}{40}\right)$$

$$\frac{15}{40} = \frac{3}{8}$$

$$39$$

$$-24$$

$$15$$

7-38)

106 112 115 120 120 122 126 130 133 142 147

stem	leaf
10	6
11	2 5
12	0 0 2 6
13	0 3
14	2 7

a)

10

6

11

2 5

12

0 0 2 6

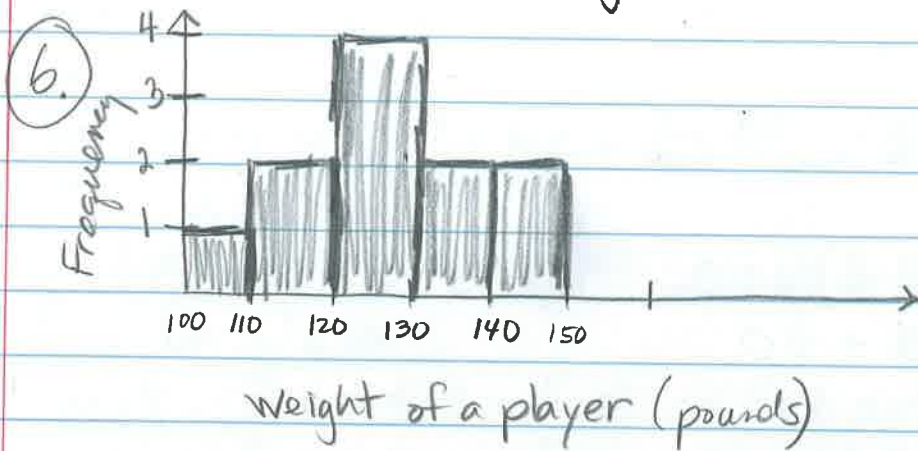
13

0 3

14

2 7

Girls BB Team Weights



c) The data is symmetric, single-peaked, and relatively closely packed.

d) There are no apparent outliers, either the mean or median would be appropriate to describe the typical weight.

e) Typical weight is: median 122 lbs.
mean: 124.82 lbs.

f) range of the data is:
data spread from 106 to 147,
range of 41 lbs.