	Algebra	t 11	pg.150
1)10 \$ 315	8)a)	5780m	
_{b)} 3yrs	8 mos	11:45 A.M.	
2)10 \$ 36.	75	C(x)= 5x-160	
120.	~ ;	37°C	
# 23	5	-40°	
# 269	50	150	
*275	(b)	-50	
64 cm	(c)	160 = £x+25	
7)a) 179 M	(d)	80	
, 70 da	195		

2) The charge for a one-day rental of a car from Shurtz Car Rental Agency is \$24 plus 15 cents for each mile driven.

**Part 1: **Part 2: **Part 2

a. If Jill drives 85 mi in one day, how much is the charge?

b. If a one-day rental cost Jill \$42, how far did she drive?

4) It costs Ace Electronics Company \$1900 to manufacture 10 VCRs and \$2200 to manufacture 16 VCRs. At this rate, what would be the cost of manufacturing 25 VCRs?

Cause: ant VCRs built

Effect: cost (10,1700) (16

to a length of 76 cm, and a load of 14 kg stretches it to a length of 85 cm.

Find the natural (unstretched) length of the spring.

6) A load of 8 kg attached to the bottom of a coil spring stretches the spring

$$H(x) = mx + b$$
 $H(x) = \frac{3}{2}x + b$
 $76 = \frac{3}{2}(8) + b$
 $76 = 12 + b$
 $64 = b$
 $H(x) = \frac{3}{2}x + 64$

7) Fifteen days after Alan began a diet he weighed 176 lb.

After 45 days he weighed 170 lb.

How much did he weigh at the beginning of the diet?

| 176 = -\$\frac{1}{5} \text{ (15,176)} \text{ (45,176)} \text{ (15,176)} \text{

b. At this rate, when will he weigh 165 lb?

9) The side table shows the freezing and boiling points of water in degrees Celsius and degrees Fahrenheit.

a. Find a linear function that gives °C in terms of °F.

b. At what °C temperature corresponds to 98.6°F?

c. At what temperature do the two scales give the same reading?

10) On a 50 question true-false test, a student received 3 points for each correct answer. For each incorrect answer, the student lost 1 point. For unanswered questions, no points are added or subtracted. **b.** Find the worst score possible. Find the best score possible. 3(50) 150 -50 c. Find the linear function that converts the raw score described above to a score from 0 to 100. (-50,0) (150,100) fox=mx+6 d. What score from 0 to 100 corresponds to a test result of 38 correct, 4 incorrect, and 8 omitted? 38(3)-4+0(8) 114-4 (110)