Chapter 11: Diagnostic Test

bas: this	The purpose of this test is to see how well you understand the basic ideas of beginning algebra. We recommend that you work this diagnostic test $before$ your instructor tests you on this chapter. Allow yourself about 40 minutes to do this test.						
with show	n sec uld s	ction referer	ces, are	e problems on this test, together given in the Answer Section. You erred to for the problems you do			
1.	Add	dd the following signed numbers:					
	(a)	7 and -3		(la)			
	(b)	-10 and -6		(lb)			
	(c)	-22 and 17		(lc)			
	(d)	25 and 16		(ld)			
	(e)	-16 -35		(le)			
	(f)	31 -47		(lf)			
	(g)	73 <u>18</u>		(lg)			
	(h)	-59 <u>84</u>		(lh)			
2.	Subt	from the upper number.					
	(a)	57 -32	(b) -14 -22	(2a)			
				(2b)			
	(c)	-93 _27	(d) 138 481	(2c)			
				(2d)			

3.	Find the following products.	
	(a) 5(-9)	(3a)
	(b) (-6)(-7)	(3b)
	(c) (-4)(12)	(3c)
	(d) (8) (9)	(3d)
	(e) (18) (-2) (-5)	(3e)
	(f) (-5)(7)(-2)(-4)	(3f)
4.	Find the following quotients.	
	(a) (126) ÷ (9)	(4a)
	(b) (39) ÷ (-13)	(4b)
	(c) (-64) ÷ (-16)	(4c)
	(d) $\frac{-75}{15}$	(4d)
	(e) $\frac{84}{-12}$	(4e)
	(f) $\frac{-144}{-9}$	(4f)
5.	Find the value of $3x + 5y$ when $x = -6$	-10 and $y = 6$.
		(5)
б.	If $A = \frac{1}{2}bh$, find A when $b = 7$ and A	h = 18.
		(6)
7.	If $A = P(1 + rt)$, find A when $P = 60$ t = 1.5.	
		(7)

8. If $C = \frac{5}{9}(F - 32)$, find C when F = 77.

(8)

- 9. Solve the following equations.
 - (a) x 3 = 7

(9a)_____

(b) 5x + 8 = -22

(9b)

(c) $\frac{x}{6} = -2$

(9c)____

(d) $3 = \frac{3x}{7} + 15$

(9d)

10. Check to see if $x = \frac{3}{5}$ is a solution of the equation 7 + 5x = 12.

(10)