Section 1.8 Focus Exercises

1.	Abbreviate each expression with familiar symbols.			You do not need to evaluate these.	
	a)	The difference of fourteen and two.		b) The square root of sixteen.	
	c)	The sum of fifteen and ten.	d)	The third power of five.	
	e)	The product of eleven and eight.	f)	The quotient of twelve and four.	
2.	W	rite each abbreviation in English.			
	a)	9 · 20			
	b)	√ 64			
	c)	16 – 4			
	d)	18 ÷ 3			
	e)	35			
	f)	8 + 10			
3.		anslate each English expression into an Algebra present the unknown number.	ic exp	pression. Use any variable of your liking to	
	a)	The product of - 3 and a number:			
	b)	The quotient of a number and 7:			
	c)	The difference of -9 and a number:			
	d)	The sum of - 10 and a number:			
	e)	The square of a number:			
	f)	The difference of a number and 8:			

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4.			riable with the replacement value given, then evaluate the result.				
	a)	y – k	replace y with -4	and k with (-2):			
	b)	- 3mh	replace m with - 5	and h with - 6:			
	c)	$\frac{y+6}{-2k}$	replace y with - 42	2 and k with - 2:			
	d)	$b^2 + x$	replace b with - 3	and x with - 10:			
	e)	$y^2 - 5y$	replace y with - 2:	_			
	f)	$w \cdot v + 6w$	replace w with - 3	and v with 5:			
5. Identify the expression by its main operation, then write (in English) its meaning.							
	I	Expression	sion Main operation in E		nglish		
	a)	$x^{2} + 6$		-			
	b)	$\sqrt{x-5}$					
	c)	$(3 \cdot \mathbf{x})^2$					
	d)	6(x + 8)					
	e)	$10 - \sqrt{x}$					
6.	In each English expression, put a box around the main operation (always written first) and the and to which it applies (if any); also, underline the sub-expression, then write its meaning in algebra.						
	English Expression				in Algebra		
	a)	The quotient of the square of a number and 4.		umber and 4.			
	b)	The product	t of 6 and the sum of a				
	c)	The sum of	3 and the quotient of a				
	d) The difference of 5 and the product of a number and 9.						
	e)	The differen	nce of the square root				

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f)

The square of the sum of a number and 6.