Beverly Hills High School -- Algebra A -- Quest #1 -- Sections 1.1-1.3 -- 75 points

Show all your work. Be neat and complete. Label all your answers that need them. All problems are three points. NO Copying. Pencils only.

Evaluate each expression.

1) $6t - 5$ when $t = 3$

2) $19 + 4n$ when $n = -2$

3) $2x^3 \div 4$ if $x = 2$

4) $3k - 4b$ when $k = -7$ and $b = -8$

5) $h + 2/3$ when $h = 4\ 2/3$

6) $24 \div 6 - 2 \times 8 + 12 - 5 =$

7) $(7 - 2)^2 + (4 \bullet 8) - 16 =$

8) $\dfrac{(24 - 6) - 22}{2^4 + 2^3 - 12} =$

9) $12(6 - 3)^2 - 105 =$

10) $-6[20 - (9 - 5)^2] + 12 \div 6 =$

Write each verbal phrase into a mathematical expression.

11) Sixteen more than five times a number

12) Eleven decreased by the square of a number

13) The quotient of ninety-four and three times a number

14) The difference between eight times a number and five times another number

15) The number of hours in t days

16) The number of weeks in z days

Write each mathematical expression in correct verbal terms. Read them carefully before turning it in.

17) $17 - 6m$ _____

18) $a^2 + 9$ _____

19) $14d$ _____

20) $12 \div 7y$ _____

For each of the following, describe which number sets each belongs to (they're all real, so don't write that)...

21) $5/17$ _____

22) -81 _____

23) $\sqrt{4\pi}$ _____

24) 0 _____

List the following group of quantities in order, from greatest to least:

25) $\sqrt{37}$, $\frac{18}{3}$, 5.95 , $\frac{58}{9}$