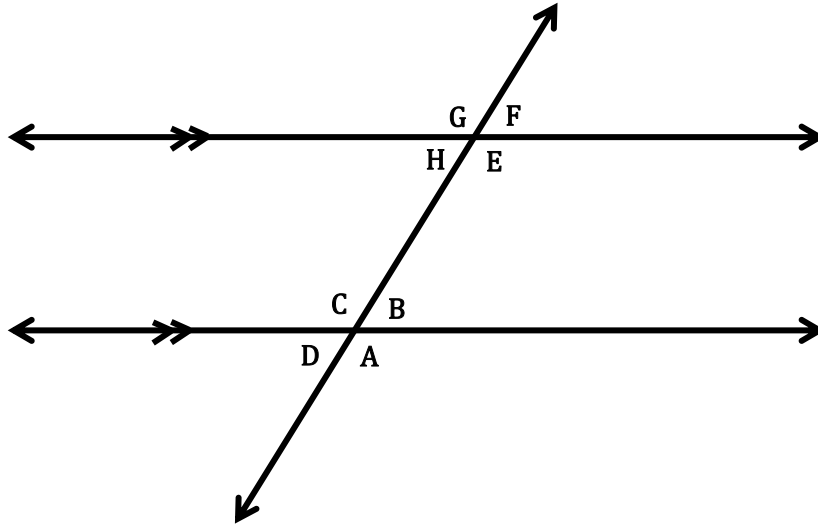Name: _____ Date: _____ Class: _____ GRADE: _____

UNIT 6: PARALLEL LINES AND ANGLE RELATIONSHIPS

Number of questions missed	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Homework Score	93	86	79	71	64	57	50	43	36	29	21	14	7	0

Use the diagram below to answer #1-8.

1) $\angle A$ and $\angle E$ are _____ angles.

2) If $\angle A = 13y°$ and $\angle E = (100 + 3y)°$, find the value of y.

3) Using your value from #2, what are the angle measures of $\angle A$ and $\angle E$?

4) $\angle B$ and $\angle H$ are _____ angles.

5) If $\angle B = (2x + 12)°$ and $\angle H = (5x - 15)°$, find the measure of $\angle H$.

6) Using your value from #5, what are the angle measures of $\angle B$ and $\angle H$?

7) ∠D and ∠F are _____ angles.

8) If ∠D = $(25x - 20)°$ and ∠F = $(13x + 4)°$, find the value of x.

9) Using your value from #8, what are the angle measures of ∠D and ∠F?

10) ∠C and ∠H are _____ angles.

11) If ∠C = $(6x)°$ and ∠H = $(3x)°$, find the measure of ∠H.

12) Using your value from #11, what are the angle measures of ∠C and ∠H?

13) In the diagram below, lines *n* and *m* are cut by transversals *p* and *q*. What is the value of *x* that would show lines *n* and *m* are parallel?

80°

30°

x°

n

m

p

q
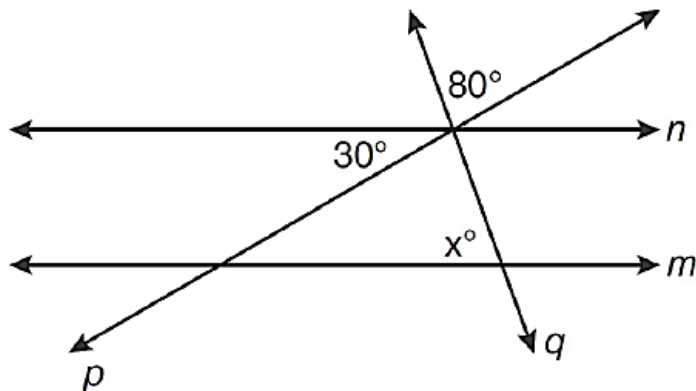
14) Show all work or explain how you got your answer to #13.