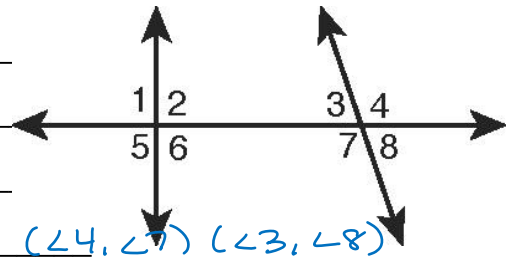
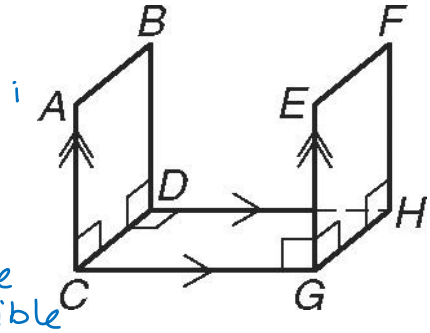
3.1-3.3 Study Guide Name: _____

For # 1– 6, give an example of each type of angle pair:



1) Corresponding Angles: (∠1,∠3) (∠2,∠4) (∠5,∠7) (∠6,∠8)
2) Alternate Interior Angles: (∠2,∠7) (∠3,∠6)
3) Same Side Interior Angles: (∠2,∠3) (∠6,∠7)
4) Alternate Exterior Angles: (∠1,∠8) (∠4,∠5)
5) Vertical Angles: (∠2,∠5) (∠1,∠6) (∠4,∠7) (∠3,∠8)
6) Linear Pair Angles: (∠1,∠2) (∠2,∠6) (∠5,∠6) + Lots more :)

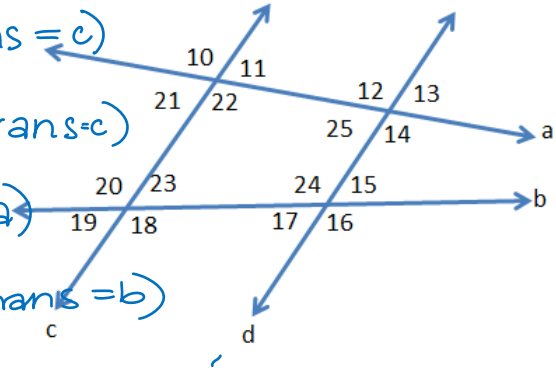
For #7-9, answer the following using the diagram on the right.



7) Identify a pair of parallel segments $\overline{BD}$ and $\overline{FH}$
8) Identify a pair of skew segments $\overline{AC}$ $\overline{DH}$
9) Identify a pair of perpendicular segments $\overline{FH}$ $\overline{HG}$

all have more possible answers

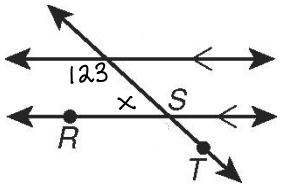
For #10-13, answer the following using the diagram on the right.



10) What type of angles are 21 and 23 alt int ∠s (trans = c)
11) What type of angles are 11 and 18 same side ext (trans = c)
12) What type of angles are 25 and 21 corr ∠s (trans = a)
13) What type of angles are 19 and 16 same side ext (trans = b)

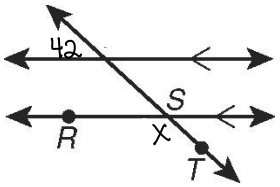
Solve for x given the lines are parallel.

14)



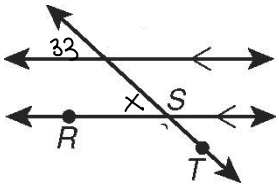
$\boxed{x = 157}$

15)



$\boxed{x = 138}$

16)



$\boxed{x = 33}$