Name Key Date _____ Pd ____

3.2 Parallel Lines & Transversals DAY THREE CYU

☑ *Use when you get it right all by yourself*

S *Use when you did it all by yourself, but made a silly mistake*

H *Use when you could do it alone with a little help from teacher or peer*

G *Use when you completed the problem in a group*

X *Use when a question was attempted but wrong (get help)*

N *Use when a question was not even attempted*

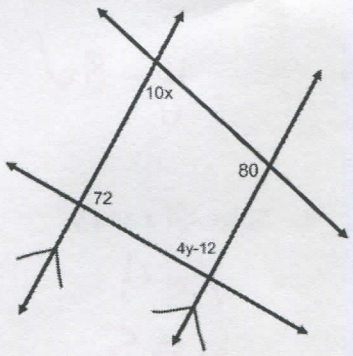
CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Corresponding Angles	4	7	
Alternate Interior Angles (AIA)	1	1	
Alternate Exterior Angles (AEA)	3	5	8
Same-Side Interior Angles (SSIA)		2, 5, 6	2
Same-Side Exterior Angles (SSEA)			8
Consecutive Interior Angles		2, 5, 6	2
Consecutive Exterior Angles			8
Parallel lines & planes	1, 3, 4	2, 5, 6, 7	8
Perpendicular lines & planes	4		

1. The figure below shows Natalia's initial, which is monogrammed on her duffel bag. Suppose angles 1 and 2 measure $(4y - 24)°$ and $(2y + 8)°$, where $y = 16$. Show the sides of the letter N are parallel. (If-then statement)

$y = 16$

If AIA $R \cong \Rightarrow \Leftrightarrow R \parallel$

2. Find the value of x and y in the diagram.

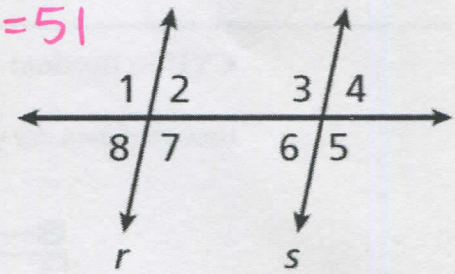


$x = 10$

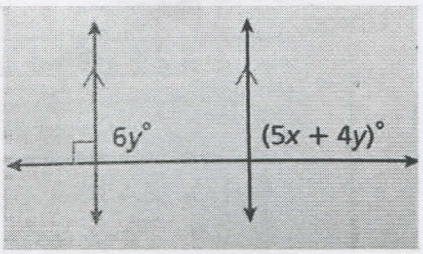
$y = 30$

3. $r \parallel s$; $m\angle 1 = (3x + 4)°$, $m\angle 5 = (2x + 55)°$, Name the angle pair and find x.

AEA $x = 51$

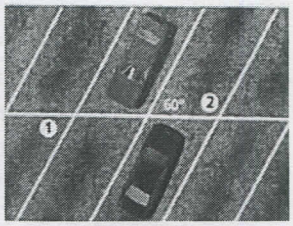


4. Solve for x and y.



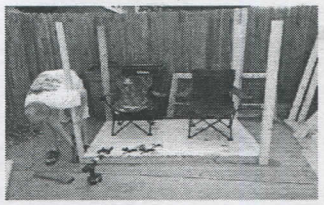
X = 6
y = 15

5. The angle provided measures 60°. If m∠1 = (2x – 3y)° and m∠2 = (x + 3y)°. Find x and y, assuming lines are parallel.



X = 60
y = 20

6. How can Mr. Caviness ensure the studs on the deer stand are parallel? (if-then statement)



If ∠'s R (1) 90° ⇒ ⇔ R //.

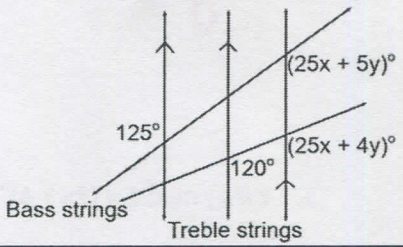
All supp. ∠'s b/c SSIA R supp. when ⇔ R //.

7. Suppose the corresponding angles on the opposite side of the boat measure (4y – 2)° and (3y + 6)°, where y = 8. Show that the oars are parallel.

30 = 30 ✓

y = 8 ✓

8. Solve for x and y.



X = 4
y = 5

CYU Reflection: *How far can you go: basic, intermediate, or advanced?*

Rate your mastery level!

How confident are you with the skills this CYU covered? Circle the score you would give yourself.