3-5 SOL Questions on Angles

Name: _

Time> Start: _____ Finish: _____ Total Time = _____

		·
1.		In each of the following figures, transversal c cuts lines a and b . In which
	Lines m and r are cut by a transversal.	figure are ∠1 and ∠2 corresponding angles?
a a		ş
	→ m	$ \uparrow \qquad \qquad \downarrow $
	$(3x - 35)^{\circ}$	F 1/
	$(7x-115)^{\circ}$	2/ h
b.		
	•	c A
	What value of x will show that line m is parallel to line r ?	2
9	F 20	\int_{1} a
	G 24 H 25	$G \longrightarrow b$
	J 33	$\downarrow \qquad \qquad \downarrow 2$
	<u> </u>	1
3.	Lines y and z are cut by a transversal.	4. For what value of x is line l parallel to line m in this figure?
		1
	77°	
	y	$\leftarrow \xrightarrow{x^{\circ}} l$
	*	
		48°
	$x^{\circ} \longrightarrow z$	/
2	*	
	For what value of x is $y \parallel z$?	
	A 13	F 42 G 48
	B 77	H 132
	C 103 D 154	J 138
5.		In this figure, line t is a transversal of lines m and n .
	In the figure shown, line q is a transversal of parallel lines l, m, n , and p .	1
	a	
	1	$\underbrace{\frac{1/2}{2}}_{2} \rightarrow m$
	$\longrightarrow m$	3/4
	$\longrightarrow n$	5/6
	→ y° p	$\frac{\sqrt{7/8}}{7/8}$
	*	
	What are the values of x and y ?	*
	A $x = 30, y = 30$	Which of the following statements determines that lines m and n are parallel?
7	B $x = 30, y = 150$ C $x = 150, y = 30$	A ∠1≅∠4
	D $x = 150, y = 150$	B ∠2≅∠7
10	and the stage	C ∠3 and ∠5 are complementary D ∠6 and ∠8 are supplementary
7.		8.
/ .		Transversal t intersects lines k and j as shown.
	In the figure shown, parallel lines j and k are cut by transversal m .	ı
	j k	<i>i</i>
	1 1	1/2
	/ m	$\leftarrow \frac{1/2}{3/2} \rightarrow k$
		4/
	What is $m \angle 1$?	√ 5/ → j
,	/322	↓
	F 32° G 58°	
	H 122°	Which of the following relationships makes $j \parallel k$?
	J 148°	A ∠2≅∠3
	* *	B ∠1 ≅ ∠3 C ∠4 and ∠5 are supplementary
		D \(\alpha \) 3 and \(\alpha \) 4 are supplementary
ł		b 25 and 21 are supplementary

