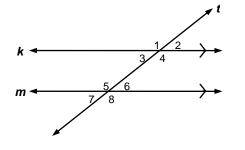
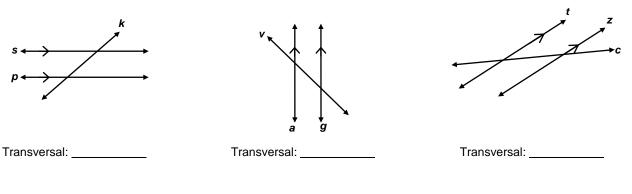
NAME	:	CLASS	DATE:
Α.	Dir	ections for problems 1 – 4	
	1)	Click Demo.	demo practice
	2)	Select Corresponding Angles Postulate from the drop- down menu.	Select postulate or theorem: Corresponding Angles Postulate 💌
	3)	Select any one of the four angles.	Select angle:
	4)	Step through the demo by clicking the navigation buttons at the bottom of the window.	step through demo: (1) (2) (3)
		Note: You may wish to view the demo again by selecting additional angles from the drop-down menu.	
	5)	Complete problems $1 - 4$ on this worksheet.	

1. Given the following image and angles, identify the corresponding angles.



Given	Corresponding Angle
∠ 1	
∠2	
∠3	
∠ 4	

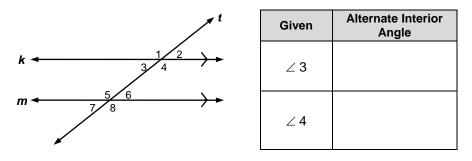
2. For each set of lines, identify which line is the transversal.



- 3. Congruent means _____
- 4. Corresponding Angles Postulate: If two parallel lines are cut by a transversal, then ______

в.	Dir	Directions for problems 5 – 6					
	1)	In Demo , select Alternate Interior Angles Theorem from the drop-down menu.	Select postulate or theorem: Alternate Interior Angles Theorem 💌				
	2)	Select any one of the two angles.	Select angle:				
	3)	Step through the demo by clicking the navigation buttons at the bottom of the window.	step through demo: (1) (2) (3) (4)				
		<i>Note</i> : You may wish to view the demo again by selecting the other angle from the drop-down menu.					
	4)	Complete problems 5 – 6 on this worksheet.					

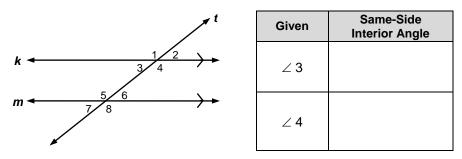
5. Given the following image, identify the alternate interior angle.



6. Alternate Interior Angles Theorem: If two parallel lines are cut by a transversal, then _____

C.	Dir	Directions for problems 7 – 9				
	1)	In Demo , select Same-Side Interior Angles Theorem from the drop-down menu.	Select postulate or theorem: Same-Side Interior Angles Theorem▼			
	2)	Select any one of the two angles.	Select angle:			
	3)	Step through the demo by clicking the navigation buttons at the bottom of the window.	step through demo: (1) (2) (3) (4)			
		Note: You may wish to view the demo again by selecting the other angle from the drop-down menu.				
	4)	Complete problems 7 – 9 on this worksheet.				

7. Given the following image, identify the same-side interior angle.



- 8. Supplementary means _____
- 9. Same-Side Interior Angles Theorem: If two parallel lines are cut by a transversal, then _____

Mathematics 1439

Parallel Lines: Special Angles: In-class Worksheet (Middle School)

Di	Directions for problems 10 – 12				
1)	Click Practice.	demo > practice			
2)	Set up each problem <i>on the computer</i> to match the setup for each problem <i>on this worksheet</i> .	Create Angles			
	• In the Create Angles panel, first select the set of parallel lines.	Select: ≓ 👯 州			
	• Then select one of the four angles and enter <i>its measure</i> .	Select angle: 3 💌 Enter measure: 45			
3)	In the Measurements panel <i>on the computer</i> , identify each special angle and its measure.	Special Angles Angle Measure			
		corresponding angle m =			
4) Click the Check Answers button do to check your work.		alternate interior angle m =			
	Correct as necessary.	same-side interior angle m 🗨 =			
5)	Complete problems 10 – 12 and record your answers on this worksheet.	Ø			

10. Setup: = ; $m \ge 3 = 40^{\circ}$

Special Angles	Angle	Measure
corresponding angle	=	=
alternate interior angle	-	=
same-side interior angle	-	=

11. **Setup:** ; *m*∠ 5 = 75°

Special Angles	Angle	Measure
corresponding angle	=	=
alternate interior angle	=	=
same-side interior angle	=	=

12. Setup: 🚧 ; m

∕∕′ ; <i>m</i> ∠ 8 = 125°

Special Angles	Angle	Measure
corresponding angle	=	=
alternate interior angle	=	=
same-side interior angle	=	=

E. Directions for problems 13 – 16

- 1) In **Practice**, set up each problem *on the computer* to match the setup for each problem *on this worksheet*.
 - In the **Create Angles** panel, first select the set of parallel lines.
 - Then select the *angle* and enter *its measure*.
- 2) In the **Measurements** panel *on the computer*, identify the special angle and its measure.

Note: You do not have to complete *all* of the special angles in order to check an angle and its measure.

- 3) Click the **Check Answers** button ^I to check your work. Correct as necessary.
- Review the example, then complete problems 13 16. Record your answers on this worksheet.

Create Angles	M X +
Select: ≠ 👫	. 🛃
Select angle: 6 🔻 E	inter measure: 40
Special Angles	Angle Measure
orresponding angle	<i>m</i> ∠2 ▼ = 40

	Parallel Lines	Given Angle	Special Angle	Angle and Measure
Ex:	#	<i>m</i> ∠ 6 = 40	Corresponding Angles	<i>m</i> ∠ 2 = 40
13.	*	<i>m</i> ∠ 7 = 72	Corresponding Angles	
14.	#	<i>m</i> ∠ 4 = 132	Alternate Interior Angles	
15.	#	<i>m</i> ∠ 1 = 145	Alternate Interior Angles	
16.	**	<i>m</i> ∠ 5 = 42	Same-Side Interior Angles	

F. Directions for problems 17 – 19

- 1) In **Practice**, set up each problem *on the computer* to match the setup for each problem *on this worksheet*.
 - In the **Create Angles** panel, first select the set of parallel lines.
 - Then select the angle and enter its measure.
- 2) In the **Measurements** panel *on the computer*, identify the special angle and its measure.
- 3) Then identify the special name for the pair of angles.
 - *Note*: You do not have to complete all of the special angles in the **Measurements** panel in order to check an angle and its measure.
- Click the Check Answers button ^I to check your work. Correct as necessary.
- 5) Review the example, then complete problems 17 19. Record your answers on this worksheet.



Special Angles	Angle	Measure
corresponding angle	<i>m</i> ∠2 ▼	= 40

	Parallel Lines	Given Angle	Special Angle and Measure	Type of Special Angles
Ex.	#	<i>m</i> ∠ 4 = 118	<i>m</i> ∠ 8 = <u>118</u>	Corresponding Angles

17.	#	<i>m</i> ∠ 5 = 77	<i>m</i> ∠ 3 =	
18.	*	<i>m</i> ∠ 7 = 95	<i>m</i> ∠ 2 =	
19.	#	<i>m</i> ∠ 8 = 128	<i>m</i> ∠ 4 =	

G. Directions for problems 20 – 23 In Practice, set up each problem on the computer to match 1) the setup for each problem on this worksheet. Select: In the Create Angles panel, select the appropriate set • of parallel lines. Select angle: 6 40 Enter measure: Then select the *angle* and enter *its measure*. • 2) In the Measurements panel on the computer, select All Angles. Using the given angle, find the other angle O special angles all angles measures. Click the **Check Answers** button do to check your work. 3) Correct as necessary.

4) Complete problems 20 – 23 and record your answers on this worksheet.

20.	Setup:	\neq
		1







Angle Measures
<i>m</i> ∠ 1 =
<i>m</i> ∠ 2 =
<i>m</i> ∠ 3 =
<i>m</i> ∠ 4 =
<i>m</i> ∠ 5 =
<i>m</i> ∠ 6 = 54
<i>m</i> ∠7 =
<i>m</i> ∠ 8 =

Angle Measures
<i>m</i> ∠ 1 =
<i>m</i> ∠ 2 = 150
<i>m</i> ∠ 3 =
<i>m</i> ∠ 4 =
<i>m</i> ∠ 5 =
<i>m</i> ∠ 6 =
<i>m</i> ∠7 =
<i>m</i> ∠ 8 =

Angle Measures
<i>m</i> ∠ 1 = 116
<i>m</i> ∠ 2 =
<i>m</i> ∠ 3 =
<i>m</i> ∠ 4 =
<i>m</i> ∠ 5 =
<i>m</i> ∠ 6 =
<i>m</i> ∠ 7 =
<i>m</i> ∠ 8 =

Angle Measures
<i>m</i> ∠ 1 =
<i>m</i> ∠ 2 =
<i>m</i> ∠ 3 =
<i>m</i> ∠ 4 =
<i>m</i> ∠ 5 = 90
<i>m</i> ∠ 6 =
<i>m</i> ∠ 7 =
<i>m</i> ∠ 8 =