

Date

complete both sides of this work sheet

**3.**1

# Puzzle Time

# What Has A Foot On Each End And One In The Middle?

Write the letter of each answer in the box containing the exercise number

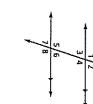
## Fill in the blank.

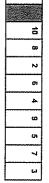
- 1. Two lines are if and only if they are coplanar and do
- Two lines are Two lines are \_\_\_\_\_\_if and only if the slopes of the lines are opposite reciprocals of each other.
- Two lines are if and only if they have exactly one
- Two lines are are not coplanar. lines when they do not intersect and
- A(n) \_\_\_\_\_ is a line that intersects two or more coplanar lines at different points.

# Identify the type of the pairs of angles.

- 6. 23 and 25
- 7. 21 and 28
- 22 and 26
- 21 and 24
- 10. ∠4 and ∠5

## 5 4 5 7





### Answers

- G. unskew
- H. conditional
- alternate exterior angles

Using the properties of parallel lines, find the angle measure

2. If two parallel lines are cut by a transversal, then the pairs of alternate interior

1. If two parallel lines are cut by a transversal, then the pairs of consecutive interior

- transversal
- T. angular
- S. skew
- L. horizontal
- R. perpendicular

- A. parallel
- D. consecutive interior angles
- B. revolving angles

- M. intersecting angles

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Geometry Resources by Chapter

out the answer to the riddle.

Circle the letter of each correct answer in the boxes below. The circled letters will spell

What Did The Acorn Say When It Grew Up?

3.2 Puzzle Time

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Complete the sentence.

- K. intersecting

- U. straight

- N. lined angles
- T. vertical angles
- P. inverse angles

- L. converse angles
- Y. alternate interior angles
- corresponding angles

 $\stackrel{\sim}{\sim}$ 

5

7.  $m\angle 1 = 84^\circ$ , Find  $m\angle 7$ .

**8.**  $m\angle 8 = 116^{\circ}$ ; Find  $m\angle 2$ 

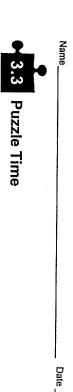
5.  $m \le 114^{\circ}$ ; Find  $m \le 8$ 4.  $m\angle 2 = 74^\circ$ ; Find  $m\angle 3$ 3.  $m\angle 2 = 74^\circ$ ; Find  $m\angle 1$ .

 $m\angle 4 = 56^{\circ}$ ; Find  $m\angle 6$ .

116°	56°	supplementary	34° 96° 114°	96°		740	84°
æ	3.	~	70	-4	***	m	-4
congruent	complementary	transitive	106°	e,99	116°	64° 124° 116° 66° 106°	64°
W	m	≻	0	773	-	m	6
			-				

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Geometry Resources by Chapter



# Why Did The Boy Throw His Clock Out The Window?

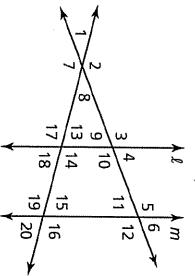
Γ	ດ	>
		æ
		C
		٥
		æ
		73

Complete each exercise. Find the answer in the answer column. Write the word under the answer in the box containing the exercise letter.

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Tollood de	<ol> <li>Trans. Prop. ≅</li> <li>Trans. Prop.   </li> <li>If alt. ext. ∠'s ≅ →   </li> <li>If vert. ∠'s → ∠'s ≅</li> <li>If corresp. ∠'s ≅ →   </li> </ol>		
ного	1. If consec. int. 2's supp. →	括 12	
34 1/2 SOUND	L4 = L8	70 THE	
10 BECAUSE	Given E.	SIRD	
2 FOREVER	<u> </u>	4 AN	<u> </u>
1 TAKE	identify the reasons.  Given: $\angle 2 \cong \angle 8$ Prove: $r \parallel s$	УЛ ПП Ф ПП	1
30 WANTED	D. $m\angle 3=24^\circ$ and $m\angle 5=(2x+2)^\circ$ Use the diagram above to complete the proof. Use the chart to	77 BREAK	·
TIME		13 PLANE	
7 FLY	Using the diagram, find the value of x that makes r parallel to s. A. $m\angle 1 = 30^{\circ}$ and $m\angle 7 = (2x + 10)^{\circ}$	10	

Given:  $l \parallel m$   $m \angle 1 = 35^{\circ}$   $m \angle 12 = 111^{\circ}$ 

Find the measures of ALL numbered angles in the diagram. (HINT: the sum of all angles in a TRIANGLE is 180°)



m26 =

 $m \le 16 =$ 

m27 =

m218 =

m29 =

m\_8=

$$m\angle 10 = m\angle 20 =$$