

2.5 Puzzle Time

Which Month Has Twenty-Eight Days?

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

Complete each sentence with the correct answer.

1. A _____ has numbered statements and corresponding reasons that show an argument in a logical order.
2. A _____ is a statement that can be proven.
3. A _____ is a logical argument that uses deductive reasoning to show that a statement is true.

Name the type of property that is illustrated. (A) Addition, (B) Transitive, (C) Inverse, (D) Symmetric, (E) Distributive, (F) Reflexive, (G) Multiplication

4. If $\angle G \cong \angle H$, then $\angle H \cong \angle G$.
5. If $AB = CD$ and $CD = XY$, then $AB = XY$.
6. $\angle A \cong \angle A$

Complete the proof using the correct reason. (1) Congruent segments, (2) Given, (3) Congruent angles, (4) Symmetric, (5) Reflexive

Given: $\overline{AB} \cong \overline{CD}$ Prove: $\overline{CD} \cong \overline{AB}$

STATEMENTS	REASONS
$\overline{AB} \cong \overline{CD}$	7. _____
$AB = CD$	8. _____
$CD = AB$	9. _____
$\overline{CD} \cong \overline{AB}$	Definition of congruent segments

R	T	K	N	H	F	E	M	Y	B
E	1	0	A	two-column proof	inductive	proof	list	B	3
G	A	U	L	P	L	I	L	D	O
C	4	G	F	deductive	5	$\frac{1}{4}$	theorem	2	D