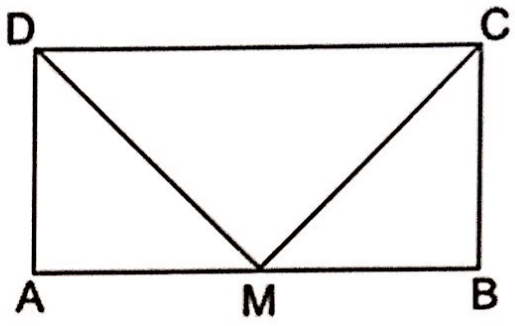
Name: _____

Quadrilateral Proof Practice

Example 1:

Given: $ABCD$ is a rectangle
M is midpoint of $\overline{AB}$

Prove: $\overline{DM} \cong \overline{CM}$

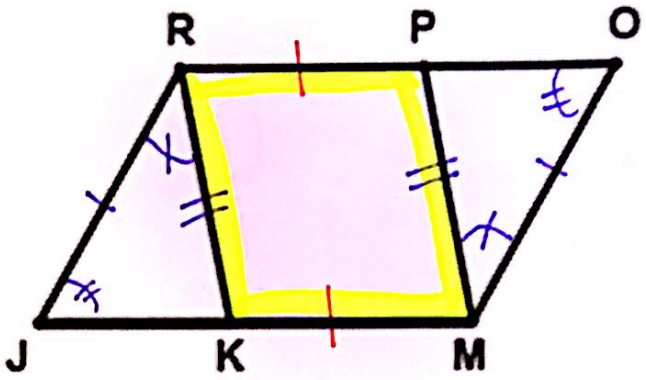


Statement	Reason
1. ABCD is a rectangle M is a midpoint of $\overline{AB}$	1. Given
2. $\overline{AM} \cong \overline{BM}$	2. Def. Midpoint
3. $\angle A$ and $\angle B$ are 90° and $\cong$	3. Def Rectangle
4. $\overline{DA} \cong \overline{CB}$	4. Opp. sides $\cong$ Prop.
5. $\triangle DAM \cong \triangle CBM$	5. SAS
6. $\overline{DM} \cong \overline{CM}$	6. CPCTC

Example 2: **Given:** RJMO is a ▱

$\angle JRK \cong \angle PMO$

Prove: RKMP is a ▱



Statement	Reason
1. RJMO is a parallelogram $\angle JRK \cong \angle PMO$	1. Given
2. $\angle J \cong \angle O$	2. Opp $\angle$'s $\cong$ Prop.
3. $\overline{JR} \cong \overline{MO}$	3. Opp sides $\cong$ Prop.
4. $\triangle JRK \cong \triangle OMP$	4. ASA
5. $\overline{RK} \cong \overline{PM}$	5. CPCTC
6. $\overline{RO} \cong \overline{JM}$	6. Opp sides $\cong$ Prop.
7. $\overline{RP} + \overline{PO} = \overline{RO}$ and $\overline{MK} + \overline{KJ} = \overline{MJ}$	7. Segment Add. Post.
8. $\overline{KM} \cong \overline{PR}$	8. Def. $\cong$
9. RKMP is ▱	9. Opp sides $\cong$ Prop.