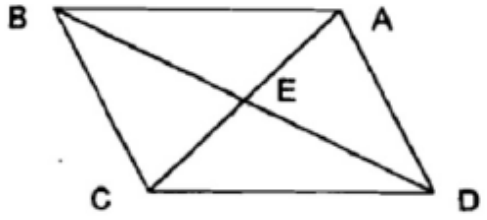
Geometry **HW #_____** **Name_____**

Ch 5 Review A

Date_____Per._____ Col._____

SHOW WORK NEATLY

Given: parallelogram *ABCD*



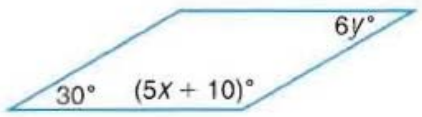
1. If m∠ *BCD* = 125 and m∠ *BAC* = 45, m∠*BCD* = _____,

m∠ *ABC* = _____, m∠ *ACD* = _____, m∠ *DAE* = _____.

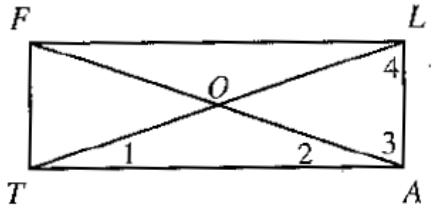
2. If *AB* = 2*x* + 3*y*, *BC* = 4*x* – 2*y*, *CD* = 17, and *DA* = 10,

***x*= _____ and *y* = _____.**

3. Find the values of *x* and *y* that make the quadrilateral a parallelogram.

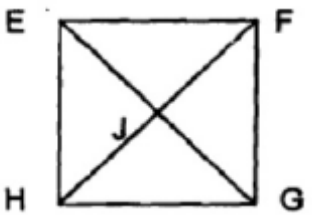


4. In rectangle FLAT, if m∠*LFA* = 4*x* + 5 and m∠*AFT* = 5*x* - 14 , m∠*FOL* = _____.

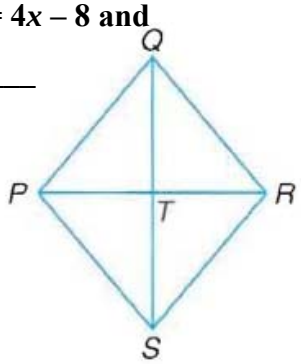


Given: square *EFGH*

5. If m∠*EJF* = 3*x*, *x* = _____. **6. If m∠*GEH* = 9*y*, *y* = _____.**



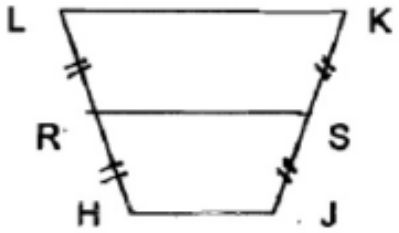
7. In rhombus *PQRS*, *PT* = 4*x* – 8 and *PS* = 32 – 4*x*. Find *TS* _____



(review)

8. In equilateral Δ*ABC*, m∠*A* = x^2 + 4*x*. Find *x*.

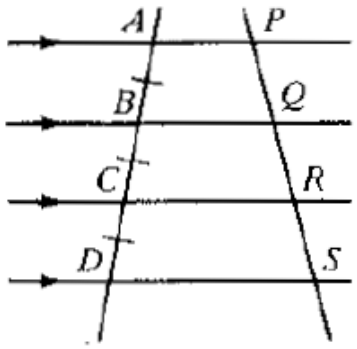
Given: Isosceles trapezoid *LKJH* with median $\overline{RS}$.



9. If *LK* = 42 and *HJ* = 30, *RS* = _____

10. If *RS* = 17 and *HJ* = 14, *LK* = _____

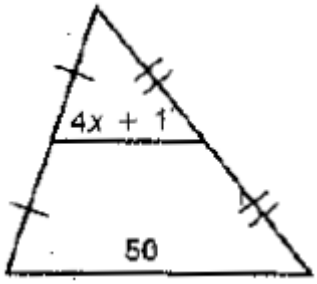
11. If m∠*LRS* = 114, m∠*KSR* = _____, m∠*LKJ* = _____, and m∠*HJK* = _____.



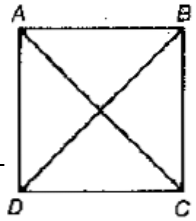
12. If *PR* = 10, *PS* = _____.

13. If *PQ* = *x* + 5 and *QS* = 7*x* + 5, *x* = _____

14. Find *x*.



Give the most specific name--parallelogram, rectangle, rhombus, square, or isosceles trapezoid—for quad. *ABCD*. (hint: draw and mark figures)



15. ∠*DAB* ≅ ∠*BCD* and ∠*ABC* ≅ ∠*ADC*_____

16. $\overline{AB} \cong \overline{BC} \cong \overline{CD} \cong \overline{DA}$ and ∠*DAB* ≅ ∠*ABC*_____

17. $\overline{AB} \parallel \overline{DC}$, $\overline{AD} \cong \overline{BC}$, and *DC* > *AB*_____

18. $\overline{AB} \parallel \overline{DC}$, $\overline{AD} \parallel \overline{BC}$, and $\overline{AC} \perp \overline{BD}$_____

19. Copy everything and write the proof on your own paper.

Given: isos. trap. *JUMP* with $\overline{JU} \parallel \overline{PM}$

Prove: △*JMP* ≅ △ *UPM*