

Key in V624

Name:	Class:
Topic:	Date:
Main Ideas/Questions	Notes
PROPERTIES OF Rectangles • Opposite sides are congruent. • Opposite sides are parallel. • Opposite angles are congruent. • Consecutive angles are supplementary. • Diagonals bisect each other.	
PLUS THESE ① All 4 angles are right angles. ② Diagonals are congruent.	
Directions: Each quadrilateral below is a rectangle. Find the missing measures.	
1. $PQ = 24$ $SR = 10$ $ST = 24$ $PT = 10$	2. $AC = 30$ $BD = 30$ $BE = 15$ $AE = 15$ $AB = 13.1$ $BC = 13.1$
3. $m\angle JKN = 27^\circ$ $m\angle KNL = 27^\circ$ $m\angle MNL = 126^\circ$	4. $m\angle WYV = 58^\circ$ $m\angle YVZ = 32^\circ$ $m\angle XWZ = 90^\circ$ $m\angle XZY = 58^\circ$
5. Given $DB = 42$, $AD = 26$, and $m\angle DAE = 52^\circ$. $x^2 + 26^2 = 42^2$ $x^2 = 1088$ $x = 33$	6. Find EF . $7x - 39 = 3x + 5$ $4x = 44$ $x = 11$ $EF = 7(11) - 39 = 38$

7. If $RT = 5x - 14$ and $US = 2x + 10$, find VT . $5x - 14 = 2x + 10$ $3x = 24$ $x = 8$ $RT = 5(8) - 14 = 26$ $VT = 13$	8. If $JM = x + 17$ and $MK = 5x - 23$, find JL . $5x - 23 = x + 17$ $4x = 40$ $x = 10$ $JM = 10 + 17 = 27$ $JL = 54$
9. If $VR = 9x - 11$ and $SU = 16x - 12$, find WT . $2(9x - 11) = 16x - 12$ $18x - 22 = 16x - 12$ $2x = 10$ $x = 5$ $VR = 9(5) - 11 = 34$ $WT = 34$	10. Find $m\angle BCE$. $11x - 3 = 7x + 5$ $4x = 8$ $x = 2$ $m\angle DCE = 11(2) - 3 = 19$ $m\angle BCE = 71^\circ$
11. Find $m\angle JHI$. $12x - 17 + 3x + 2 = 90$ $15x - 15 = 90$ $15x = 105$ $x = 7$ $m\angle b\angle K = 3(7) + 2 = 23^\circ$ $m\angle JHI = 23^\circ$	12. Find $m\angle XZW$. $5x - 8 + x + 20 = 90$ $6x + 12 = 90$ $6x = 78$ $x = 13$ $m\angle YXZ = 5(13) - 8 = 57^\circ$ $m\angle XZW = 57^\circ$
13. Solve for x . $5x + 1 + 5x + 1 + 40 = 180$ $10x + 42 = 180$ $10x = 138$ $x = 13.8$	14. Find $m\angle DEC$. $5x + 7 + 13x = 180$ $18x = 173$ $x = 9.61$ $m\angle DEC = 5(9.61) + 7 = 55.05^\circ$

Name: _____

Unit 7: Polygons & Quadrilaterals

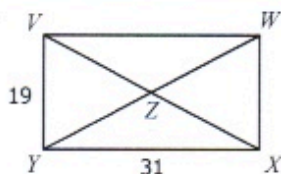
Date: _____ Bell: _____

Homework 3: Rectangles

**** This is a 2-page document! ****

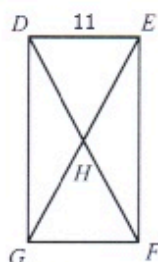
Directions: If each quadrilateral below is a rectangle, find the missing measures.

1.



$VW =$ _____
 $WX =$ _____
 $YW =$ _____
 $ZX =$ _____
 $VX =$ _____

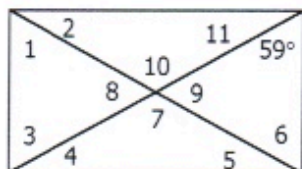
2.



$*GH = 14$

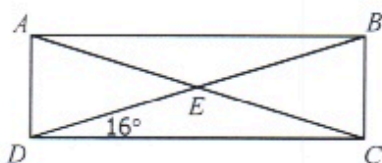
$GF =$ _____
 $GE =$ _____
 $DF =$ _____
 $HF =$ _____
 $DG =$ _____

3.



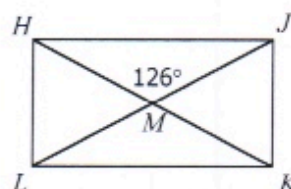
a) $m\angle 1 =$ _____ e) $m\angle 5 =$ _____ i) $m\angle 9 =$ _____
 b) $m\angle 2 =$ _____ f) $m\angle 6 =$ _____ j) $m\angle 10 =$ _____
 c) $m\angle 3 =$ _____ g) $m\angle 7 =$ _____ k) $m\angle 11 =$ _____
 d) $m\angle 4 =$ _____ h) $m\angle 8 =$ _____

4.



a) $m\angle BCD =$ _____ d) $m\angle ADE =$ _____
 b) $m\angle ABD =$ _____ e) $m\angle AEB =$ _____
 c) $m\angle CBE =$ _____ f) $m\angle DEA =$ _____

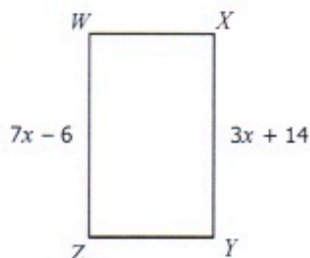
5.



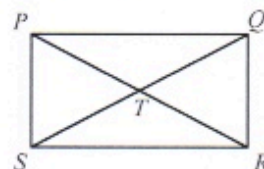
a) $m\angle JMK =$ _____ d) $m\angle HJL =$ _____
 b) $m\angle JKH =$ _____ e) $m\angle LHK =$ _____
 c) $m\angle HLK =$ _____ f) $m\angle JLK =$ _____

6. Find WZ.

(Replace x to find length)



7. If $SQ = 11x - 26$ and $PR = 5x + 28$, find PR.



scrambled answers:

$x = 5; 29$

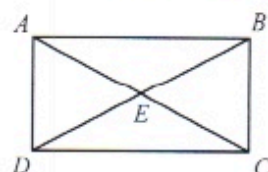
$x = 9; 73$

11, 28, 28, 14, 25, 7

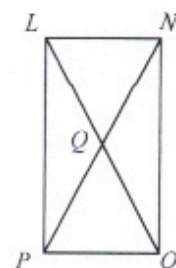
31, 19, 36.4, 18.2, 36.4

90, 16, 14, 74, 148, 32

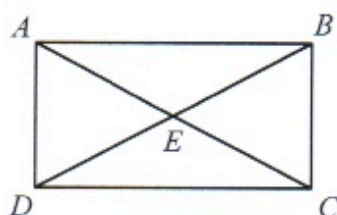
8. If $AE = 6x - 55$ and $EC = 3x - 16$, find DB .



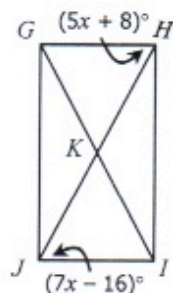
9. If $LO = 15x + 19$ and $QN = 10x + 2$, find PN .



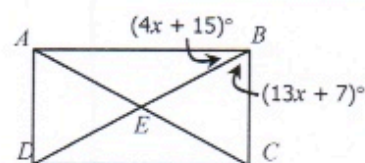
10. If $DE = 4x + 1$, $EB = 12x - 31$, and $CD = 28$, find AD .



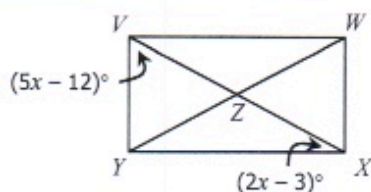
11. Find $m\angle GJK$.



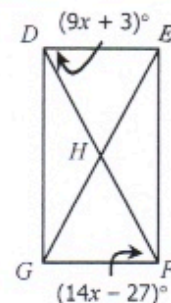
12. Find $m\angle ADE$.



13. Find $m\angle VWZ$.



14. Find $m\angle DHG$.



Scrambled ans: 19.3 22 27 46 59 64 114