

Lesson 5

Name: Key

Date: _____ Bell: _____ Homework Trapezoids



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

1. $m\angle C = 180 - 79 = 101$
 $m\angle E = 180 - 134 = 46$

2. $m\angle Q = 180 - 91 = 89$
 $m\angle S = 180 - 27 = 153$

3. $m\angle J = 83$
 $m\angle L = 180 - 83 = 97$
 $m\angle M = 97$

4. $m\angle W = 34$
 $m\angle X = 34$
 $m\angle Z = 146$

5. Solve for x. $(14x - 15) + 139 = 180$
 $14x - 15 + 139 = 180$
 $14x + 124 = 180$
 $14x = 56$
 $x = 4$

6. Find $m\angle B$. $9x + 2 + 5x - 4 = 180$
 $14x - 2 = 180$
 $14x = 182$
 $x = 13$
 $m\angle B = 9(13) + 2 = 119$

7. $(8x - 16) + (5x + 20) = 180$
 $13x - 4 = 180$
 $13x = 184$
 $x = 14$
 $m\angle M = 128$
 $m\angle N = 138$
 $m\angle O = 52$
 $m\angle P = 52$

8. $13x - 7 + 8x - 2 = 180$
 $21x - 9 = 180$
 $21x = 189$
 $x = 9$
 $m\angle W = 110$
 $m\angle X = 110$
 $m\angle Y = 70$
 $m\angle Z = 70$