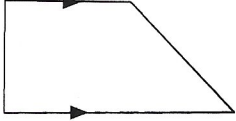
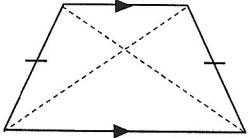


Name: _____

Class: _____

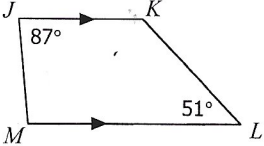
Topic: _____

Date: _____

Main Ideas/Questions	Notes
<p>NON-ISOSCELES <i>Trapezoids</i></p> 	<p>Properties of Non-Isosceles Trapezoids:</p> <ul style="list-style-type: none"> • Only ONE pair of opposite sides parallel. • Consecutive angles between parallel lines are supplementary.
<p>ISOSCELES <i>Trapezoids</i></p> 	<p>Isosceles trapezoids have the same properties as non-isosceles trapezoids, plus these:</p> <ul style="list-style-type: none"> • Non-parallel sides (legs) are congruent. • Diagonals are congruent. • Base angles are congruent. • Opposite angles are supplementary.

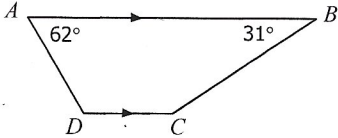
Practice! Find each missing value on the trapezoids below.

1.



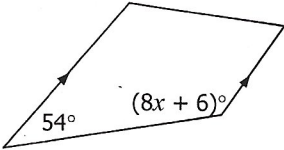
$m\angle K = \underline{\hspace{2cm}}$
 $m\angle M = \underline{\hspace{2cm}}$

2.

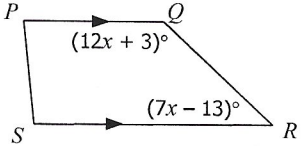


$m\angle C = \underline{\hspace{2cm}}$
 $m\angle D = \underline{\hspace{2cm}}$

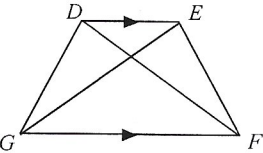
3. Solve for x .



4. Find $m\angle R$.

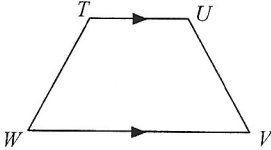


5. $DEFG$ is an isosceles trapezoid.



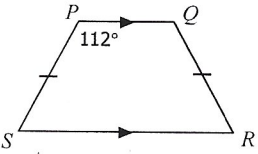
$\overline{DG} \cong \underline{\hspace{2cm}}$
 $\overline{DF} \cong \underline{\hspace{2cm}}$

6. $TUVW$ is an isosceles trapezoid.



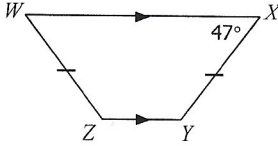
$\angle T \cong \underline{\hspace{2cm}}$
 $\angle V \cong \underline{\hspace{2cm}}$

7.



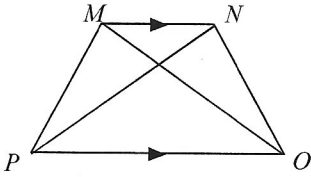
$m\angle Q = \underline{\hspace{2cm}}$
 $m\angle R = \underline{\hspace{2cm}}$
 $m\angle S = \underline{\hspace{2cm}}$

8.

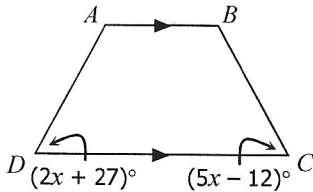


$m\angle W = \underline{\hspace{2cm}}$
 $m\angle Y = \underline{\hspace{2cm}}$
 $m\angle Z = \underline{\hspace{2cm}}$

9. If $MNOP$ is an isosceles trapezoid, $MP = 16x - 13$, $NO = 9x + 8$, $PN = 5y + 19$, and $MO = 12y - 37$, solve for x and y .



10. If $ABCD$ is an isosceles trapezoid, find each missing angle.



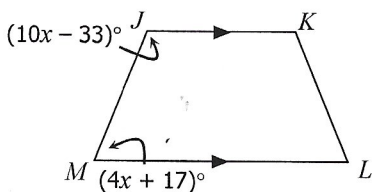
$$m\angle A = \underline{\hspace{2cm}}$$

$$m\angle B = \underline{\hspace{2cm}}$$

$$m\angle C = \underline{\hspace{2cm}}$$

$$m\angle D = \underline{\hspace{2cm}}$$

11. If $JKLM$ is an isosceles trapezoid, find each missing angle.



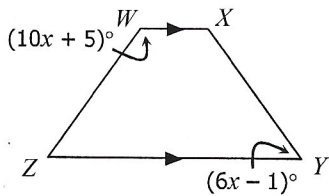
$$m\angle J = \underline{\hspace{2cm}}$$

$$m\angle K = \underline{\hspace{2cm}}$$

$$m\angle L = \underline{\hspace{2cm}}$$

$$m\angle M = \underline{\hspace{2cm}}$$

12. If $WXYZ$ is an isosceles trapezoid, find each missing angle.



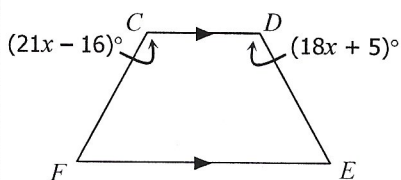
$$m\angle W = \underline{\hspace{2cm}}$$

$$m\angle X = \underline{\hspace{2cm}}$$

$$m\angle Y = \underline{\hspace{2cm}}$$

$$m\angle Z = \underline{\hspace{2cm}}$$

13. If $CDEF$ is an isosceles trapezoid, find each missing angle.



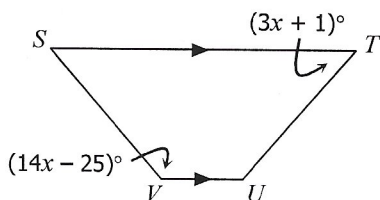
$$m\angle C = \underline{\hspace{2cm}}$$

$$m\angle D = \underline{\hspace{2cm}}$$

$$m\angle E = \underline{\hspace{2cm}}$$

$$m\angle F = \underline{\hspace{2cm}}$$

14. If $STUV$ is an isosceles trapezoid, find each missing angle.



$$m\angle S = \underline{\hspace{2cm}}$$

$$m\angle T = \underline{\hspace{2cm}}$$

$$m\angle U = \underline{\hspace{2cm}}$$

$$m\angle V = \underline{\hspace{2cm}}$$