

TRAPEZOIDS AND KITES

NAME _____ PERIOD _____



Match the pair of segments or angles with the term that best describes them in trapezoid PQRS.

_____ 1. \overline{QR} and \overline{PS}

_____ 2. \overline{PQ} and \overline{RS}

_____ 3. \overline{QS} and \overline{PR}

_____ 4. $\angle Q$ and $\angle S$

_____ 5. $\angle S$ and $\angle P$

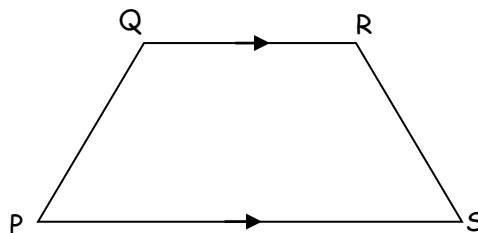
A. bases

B. legs

C. diagonals

D. base angles

E. opposite angles



Complete the statement with always, sometimes, or never.

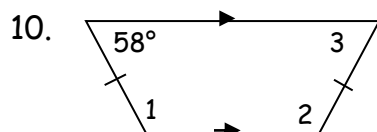
6. A trapezoid is _____ a parallelogram.

7. The bases of a trapezoid are _____ parallel.

8. The base angles of an isosceles trapezoid are _____ congruent.

9. The legs of a trapezoid are _____ congruent.

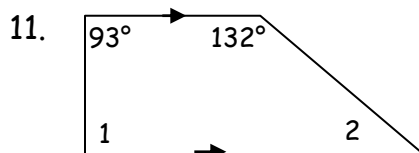
Find the angle measures.



$m\angle 1 =$ _____

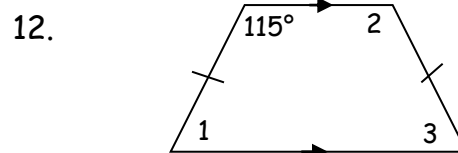
$m\angle 2 =$ _____

$m\angle 3 =$ _____



$m\angle 1 =$ _____

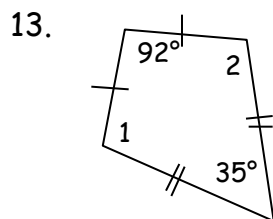
$m\angle 2 =$ _____



$m\angle 1 =$ _____

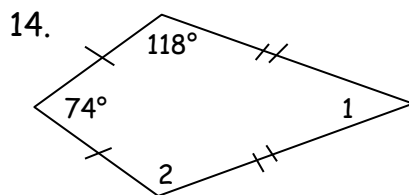
$m\angle 2 =$ _____

$m\angle 3 =$ _____



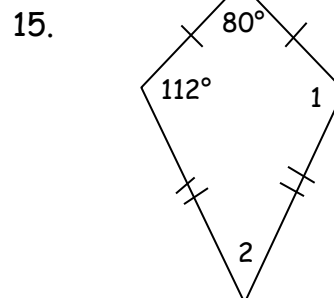
$m\angle 1 =$ _____

$m\angle 2 =$ _____



$m\angle 1 =$ _____

$m\angle 2 =$ _____

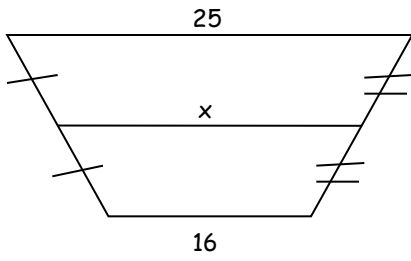


$m\angle 1 =$ _____

$m\angle 2 =$ _____

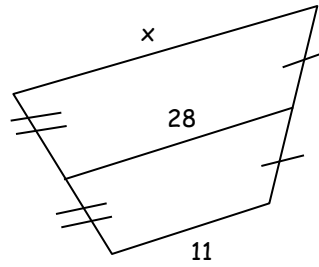
Solve for x.

16.



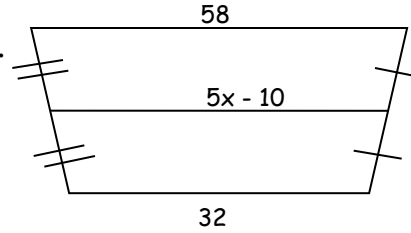
$x =$ _____

17.



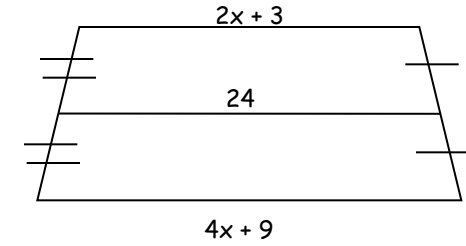
$x =$ _____

18.



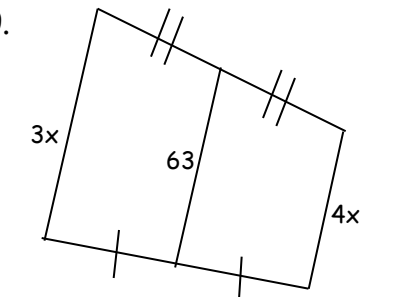
$x =$ _____

19.



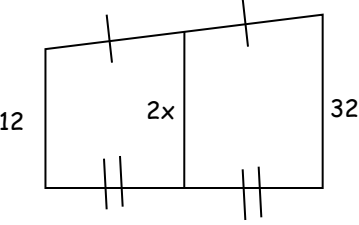
$x =$ _____

20.



$x =$ _____

21.



$x =$ _____