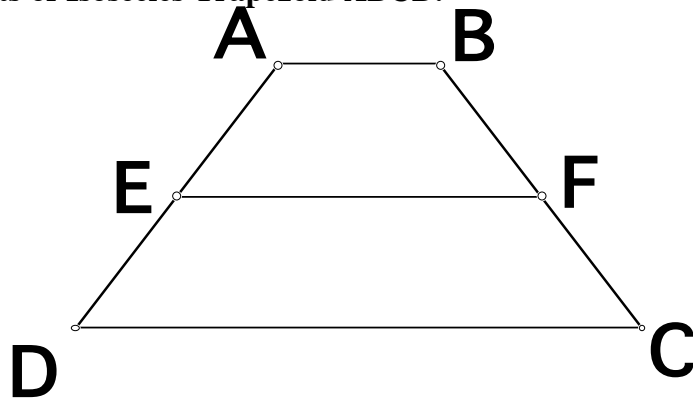


Chapter 6: Quadrilaterals
 Lesson 6-5: Trapezoids and Kites
 Homework

Name: _____
 Date: _____
 Period: _____

1. Find the missing measurements of Isosceles Trapezoid ABCD.

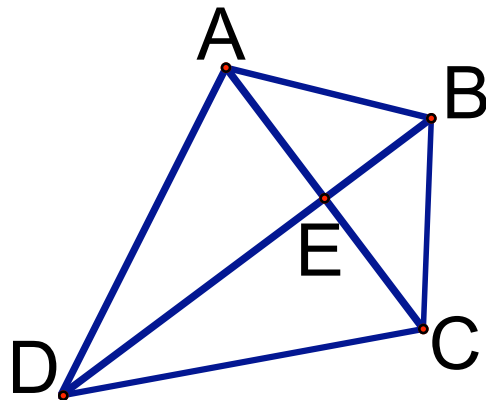
AB = 13
 EF = _____
 DC = 19
 AE = _____
 ED = _____
 AD = _____
 BF = _____
 FC = 5.5
 BC = _____



$m\angle EAB = \underline{\hspace{1cm}}$ $m\angle ABF = 123^\circ$ $m\angle BFE = \underline{\hspace{1cm}}$ $m\angle EFC = \underline{\hspace{1cm}}$
 $m\angle FCD = \underline{\hspace{1cm}}$ $m\angle CDE = \underline{\hspace{1cm}}$ $m\angle DEF = \underline{\hspace{1cm}}$ $m\angle FEA = \underline{\hspace{1cm}}$

2. Find the missing measurements of Kite ABCD.

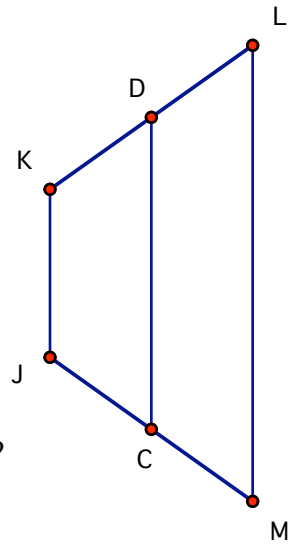
AB = 8
 BC = _____
 CD = _____
 DA = 14
 AC = _____
 DB = _____
 AE = 6
 BE = 5
 CE = _____
 DE = 12



$m\angle ABE = \underline{\hspace{1cm}}$ $m\angle EBC = \underline{\hspace{1cm}}$ $m\angle BCE = \underline{\hspace{1cm}}$ $m\angle ECD = \underline{\hspace{1cm}}$
 $m\angle CDE = \underline{\hspace{1cm}}$ $m\angle EDA = \underline{\hspace{1cm}}$ $m\angle DAE = 63^\circ$ $m\angle EAB = 39^\circ$
 $m\angle AEB = \underline{\hspace{1cm}}$ $m\angle BEC = \underline{\hspace{1cm}}$ $m\angle CED = \underline{\hspace{1cm}}$ $m\angle DEA = \underline{\hspace{1cm}}$

JKLM is an isosceles trapezoid. Use the given information to solve each problem.

3. Find DC if $JK=9$ and $LM=18$.
4. Find JK if $CD=23$ and $LM=30$.
5. Find $m\angle JKD$, if $m\angle KDC = 47$.
6. Find $m\angle L$ if $m\angle KJC = 111$.
7. What is the value of x if $KL=144$, and $DL = 2x$?
8. What is the value of x if $m\angle K = 115$ and $m\angle L = 3x + 26$?
9. What is the value of x if $m\angle J = 5x - 12$ and $m\angle DCM = x + 26$?
10. What is the value of x if $JK=2x-4$, $LM=4x+8$, and $CD=53$?



PQRS is a kite. Use the given information to solve each problem.

11. Find $m\angle TRS$ if $m\angle RST$ is 65° .
12. Find $m\angle PQR$ if $m\angle PST = 72$ and $m\angle TSR = 19$.
13. What is the value of x if $QR=14x-7$ and $RS = 7x$?
14. What is the value of x if $PQ+QR = 58$ and $RS+SP = 23x - 189$?
15. What is the value of x if $m\angle PQT = 4x - 3$, $m\angle TQR = x + 8$, and $m\angle PSR = 149$?

