

Name: _____

Homework #5-4 Midsegments

EXERCISES

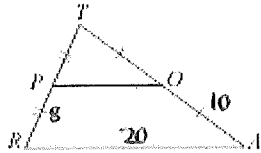
You will need



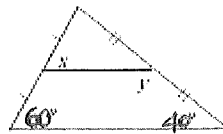
Construction tools
for Exercises 9 and 10

1. How many midsegments does a triangle have? A trapezoid have?

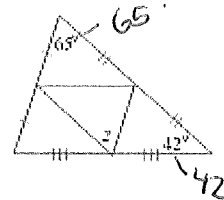
2. What is the perimeter of $\triangle TOP$? (10)



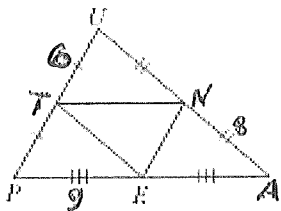
3. $x = ?$
 $y = ?$



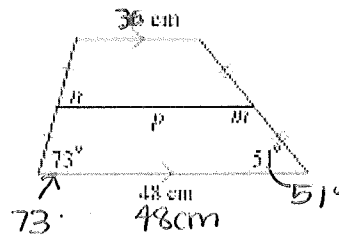
4. $z = ?$ (10)



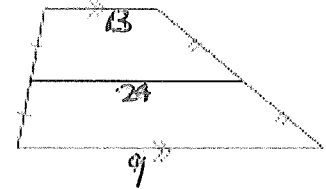
5. What is the perimeter of $\triangle TEN$?



6. $m = ?$
 $n = ?$
 $p = ?$



7. $q = ?$

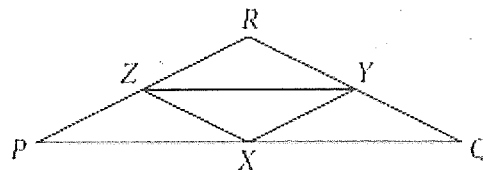


x , y , and z are midpoints. Perimeter $\triangle PQR = 132$, $RQ = 55$, and $PZ = 20$.

Perimeter $\triangle XYZ =$ _____

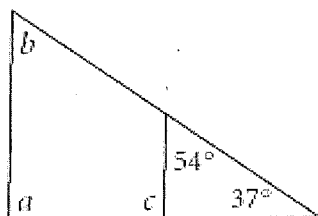
$PQ =$ _____

$ZX =$ _____

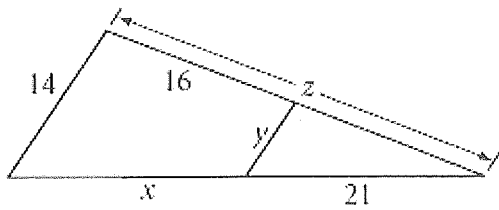


$a =$ _____, $b =$ _____,

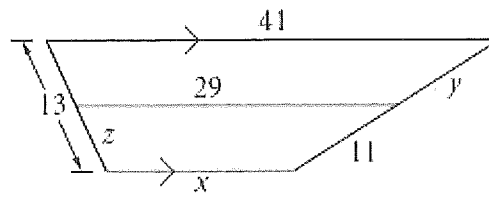
$c =$ _____



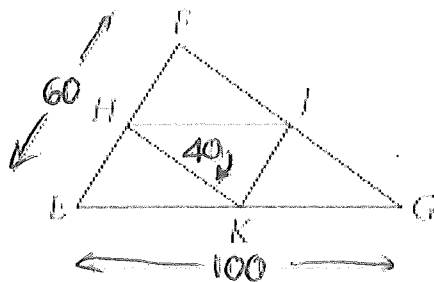
2. $x = \underline{\hspace{2cm}}$, $y = \underline{\hspace{2cm}}$,
 $z = \underline{\hspace{2cm}}$



3. $x = \underline{\hspace{2cm}}$, $y = \underline{\hspace{2cm}}$,
 $z = \underline{\hspace{2cm}}$

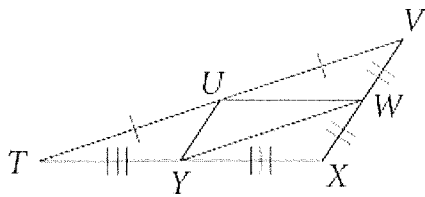


In $\triangle EFG$, H , J , and K are midpoints. Find HJ , JK , and FG .

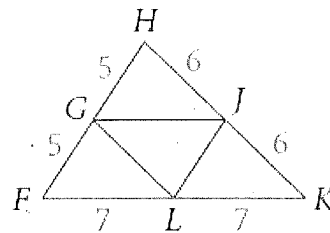


Identify pairs of parallel segments in each diagram.

11.

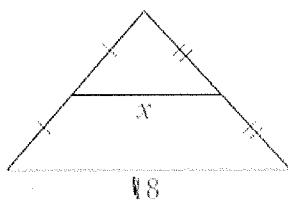


12.

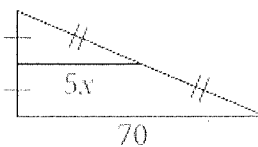


Mental Math Find the value of x .

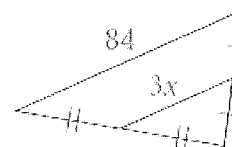
1.



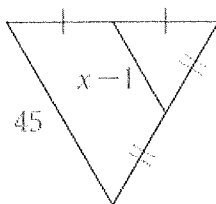
2.



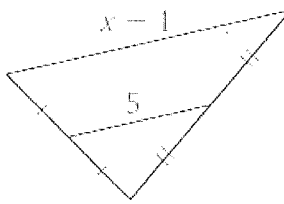
3.



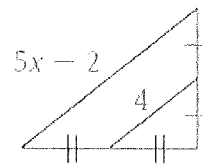
4.



5.



6.



Points E , D , and H are midpoints of $\triangle TUV$.
 $UV = 80$, $TV = 100$, and $HD = 80$.

7. Find HE .

8. Find ED .

9. Find TU .

10. Find TE .

