

Use the Triangle Midsegment Theorem to name parts of the figure.

1. a midsegment of triangle ABC DE
2. a segment parallel to \overline{AC} DE
3. a segment with the same length as \overline{BD} AD
4. a segment that is half the length of \overline{AC} DE
5. a segment twice the length of \overline{EC} BC



Use the Triangle Midsegment Theorem to find each measure.

6. $ST = 12$
7. $QR = 22$
8. $PU = 12$
9. $m\angle SUP = 55^\circ$ (alt int to $\angle TSU$)
10. $m\angle SUR = 125^\circ$
supl. to $\angle SUP$
11. $m\angle PRQ = 55^\circ$
corresp. to $\angle SUP$



12. $HI = 9.1$
13. $DF = 35$
14. $GE = 9.1$
15. $m\angle HIF = 58^\circ$ alt int to $\angle GHI$
16. $m\angle HGD = 122^\circ$
same-side int to $\angle GHI$
17. $m\angle D = 58^\circ$
same-side int to $\angle HGD$



18. $VX = 23$
19. $HJ = 54$
20. $m\angle VXJ = 92^\circ$
corresp. to $\angle JHG$
21. $XJ = 27$



22. $ST = 72$
23. $DE = 22$
24. $m\angle DES = 48^\circ$
alt int to $\angle CDE$
25. $m\angle RCD = 48^\circ$
alt int to $\angle EDC$



Midsegment Theorem Worksheet Answers Key

Clemens Wendtner



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