Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Key Concept** | **Notes** |
| Midsegment |  |
| Triangle Midsegment Theorem | If a segment joins the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of two sides of a triangle, then the segment is:a)b)  |
| Problem 1 | What are the three pairs of parallel segments in Δ*DEF*? |
| Problem 2 | In Δ*QRS*, *T*, *U*, and *B* are midpoints. What are the lengths of $\overbar{TU}$, $\overbar{UB}$, and $\overbar{QR}$? |
| Problem 3 | A geologist wants to determine the distance, *AB*, across a sinkhole. Choosing point *E* outside the sinkhole, she finds the distances *AE* and *BE*. She locates the midpoints *C* and *D* of $\overbar{AE}$ and $\overbar{BE}$ and then measures $\overbar{CD}$. What is the distance across the sinkhole? |

APPLICATION











COMPREHENSION

**4**.