

Unit 4 Quiz SG Answer Key

- 1) No they are not similar because the sides are not proportional.
- 2) Yes; by AA^\sim , SAS^\sim , or SSS^\sim
- 3) Yes; by AA^\sim , SAS^\sim , or SSS^\sim
- 4) $\triangle ABC \sim \triangle EDC$ by AA^\sim
- 5) $\triangle UTV \sim \triangle XYW$ by SSS^\sim
- 6) $DE = 9.75$
- 7) $BH = 5.4$
- 8) $FE = 6$

9) $\overline{WX} \parallel \overline{DE}$ by the Converse of the Δ Prop. Thm.

10) $SQ = 98$

11) No; $\frac{GH}{HE} \neq \frac{FJ}{JE}$

12) SAS~

13) $x = 30$

14) C

15) 25.2

16) No; All 3 sides do not have the same similarity ratio

17 – 20) See online videos

*Please remember that these are just the answers. You are required to show your work to support these answers. For example, if the answer key states sides were proportional, make sure you show which sides are proportional.