

Answer Key

Lesson 6.3

Practice Level C

1. $\angle S \cong \angle C, \angle T \cong \angle D, \angle U \cong \angle E;$

$$\frac{ST}{CD} = \frac{TU}{DE} = \frac{SU}{CE}$$

2. $\angle L \cong \angle G, \angle M \cong \angle H, \angle N \cong \angle I;$

$$\frac{LM}{GH} = \frac{MN}{HI} = \frac{LN}{GI}$$

3. $\angle C \cong \angle M, \angle D \cong \angle N, \angle E \cong \angle K,$

$$\angle F \cong \angle L; \frac{CD}{MN} = \frac{DE}{NK} = \frac{EF}{KL} = \frac{CF}{ML}$$

4. $\triangle LNM \sim \triangle TPO; \frac{4}{3}$

5. quadrilateral $ABCD \sim$ quadrilateral $HEFG; \frac{5}{8}$

6. $\frac{2}{3}$ 7. $\frac{3}{2}$ 8. 4.5 9. 117° 10. 24 11. 201.6 ft

12. 77.4 in. 13. $\frac{rv}{u}$ 14. $\frac{sv}{u}$ 15. $\frac{tv}{u}$ 16. 6

17. -5, 2.5 18. 8 19. -0.4, 15

20. 8 times greater