

Answer Key

Lesson 6.6

Practice Level C

1. AG 2. DE 3. EG 4. BG 5. CG 6. DC

7. no; $\frac{7}{2} \neq \frac{8}{3}$ 8. yes; $\frac{6}{9} = \frac{2}{3} = \frac{4}{6}$ 9. yes; $\frac{3}{4} = \frac{3\frac{3}{4}}{5}$

10. 10 11. 20 12. 10 13. $2\frac{2}{3}$ 14. 7.5

15. 11.25 16. 10 17. 11.2 18. 12.5 19. 4.5

20.

Statements	Reasons
1. $\overline{GB} \parallel \overline{FC} \parallel \overline{ED}$	1. Given
2. $\angle ABG \cong \angle ADE$	2. Corresponding $\angle$ s Post.
3. $\angle AGB \cong \angle AED$	3. Corresponding $\angle$ s Post.
4. $\triangle ABG \sim \triangle ADE$	4. AA Similarity Post.

21.

Statements	Reasons
1. $\overline{WZ}$ bisects $\angle XZY$.	1. Given
2. $\frac{XW}{XZ} = \frac{WY}{ZY}$	2. Thm. 6.7
3. $XW(ZY) = XZ(WY)$	3. Cross Products Prop.
4. $XW = WY$	4. Given
5. $XW(ZY) = XZ(XW)$	5. Subst. Prop. of Equality
6. $ZY = XZ$	6. Div. Prop. of Equality

22. 22.1 in.