

Chapter 7 Review Answers

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1. $\frac{23}{50}$ or 23:50
2. $\frac{1}{2}$ or 1:2
3. 30, 75, 60
4. 40, 60, 80

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35. $x = 63, y = 32$
36. $x = 21, y = 65$

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15. No, corresponding sides are not similar
16. Yes, $PQRS \sim WXYZ$, $SF = \frac{3}{2}$
17. $x = 16.5$
18. 70 mi
19. Yes, $\triangle ABE \sim \triangle ADC$ by SAS Thm
20. Yes, $\triangle IJK \sim \triangle HFG$, by SSS Thm
21. No, not all corresp angles are \cong
22. Yes, $\triangle TUV \sim \triangle TSR$ by AA Thm
23. 34.2 ft
24. 9.6
25. 22.5
26. 250 ft

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1. 28
2. 15
3. 15
4. 45
5. Yes, $\triangle XYZ \sim \triangle ABC$, $SF = \frac{2}{7}$
12. 1:18
13. 29.2
14. 34.7

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9. 9
12. 10
15. a) $\frac{XQ}{QZ} = \frac{YR}{RZ}$
b) 16
c) 19