

Answer Key

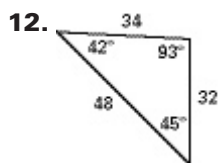
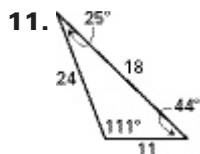
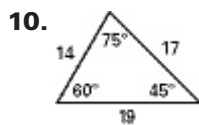
Lesson 5.5

Practice Level B

1–3. Check student's drawings. Longest side and largest angle are opposite each other, shortest side and smallest angle are opposite each other.

4. $\overline{DF}, \overline{FE}, \overline{DE}$; $\angle E, \angle D, \angle F$ 5. $\overline{ST}, \overline{RT}, \overline{RS}$; $\angle R, \angle S, \angle T$ 6. $\overline{XY}, \overline{YZ}, \overline{XZ}$; $\angle Z, \angle X, \angle Y$

7. $\overline{JK}, \overline{JL}, \overline{KL}$; $\angle L, \angle K, \angle J$ 8. $\overline{AC}, \overline{AB}, \overline{BC}$; $\angle B, \angle C, \angle A$ 9. $\overline{QR}, \overline{PR}, \overline{PQ}$; $\angle P, \angle Q, \angle R$



13. yes 14. yes

15. No; $1 + 4 < 6$. 16. No; $22 + 26 < 65$.

17. yes 18. No; $7 + 45 < 54$.

19. 3 in. $< x < 15$ in. 20. 8 ft $< x < 16$ ft

21. 9 m $< x < 27$ m 22. 5 yd $< x < 37$ yd

23. 2 in. $< x < 46$ in. 24. 12 in. $< x < 60$ in.

25. yes; $\angle S, \angle R, \angle T$ 26. no 27. $2 < x < 7$

28. $2 < x < 6$ 29. The building is taller than

200 ft. 30. $m\angle ABC < m\angle BAC$ and

$m\angle BAD < m\angle ABD$ 31. 70 mi $< d < 1350$ mi

32. Think of the 60- and 24-ft distances as two sides of a triangle. Then the unknown distance d is $36 \text{ ft} < d < 84 \text{ ft}$. This doesn't account for the cases when the ball lands straight forward ($d = 36 \text{ ft}$) or straight backward ($d = 84 \text{ ft}$).