

Answers for Lesson 3-3, pp. 120–121 Exercises

1. \overline{PR} and \overline{RQ} ; \overline{PQ}
2. a. 10
b. 36
c. 64
d. 8
3. 16 in.
4. 5.3 m
5. 6.7 ft
6. 8.7 in.
7. 10.9
8. 24
9. 17.1
10. 5.8
11. 14.7
12. 10.2
13. 8.7 ft
14. 129.6 in.²
15. 6
16. 21.9
17. 19.8
18. 17 m
19. The student added 3^2 to 4^2 instead of subtracting it from 4^2 . You must find $\sqrt{4^2 - 3^2}$.
20. a. The distance d between the bases is the same, and the angles in a baseball diamond are right angles. You can use the Pythagorean Theorem: $d^2 + d^2 = 127.3^2 - 127.3^2$. Then solve for d .
b. 90 ft
c. 360 ft
21. no; $(a + b)^2 \neq a^2 + b^2$
22. B
23. G
24. B
25. $>$
26. $>$
27. $=$
28. $>$