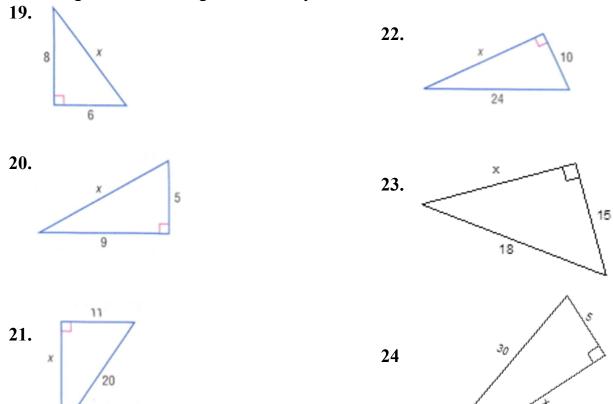
Name:	Period:	Score: / =	% =
Assignment 6-1Sec 1Pythagorean Theorem/Simplifying Radicals			Unit 6
Simplify each exp 1. $\sqrt{169}$	pression. 7. $\sqrt{6}$	13. $\sqrt{27}$	
2. $\sqrt{36}$	8. √756	14. $\sqrt{16}$	
3. $\sqrt{25}$	9. $\sqrt{600}$	15. $\sqrt{243}$	
4. $\sqrt{30}$	10. $\sqrt{35}$	16. √ 54	
5. √75	11. $\sqrt{64}$	17. $\sqrt{24}$	
6. $\sqrt{45}$	12. $\sqrt{50}$	18. $\sqrt{72}$	

Find the length of the missing side. Show your work.

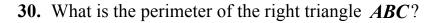


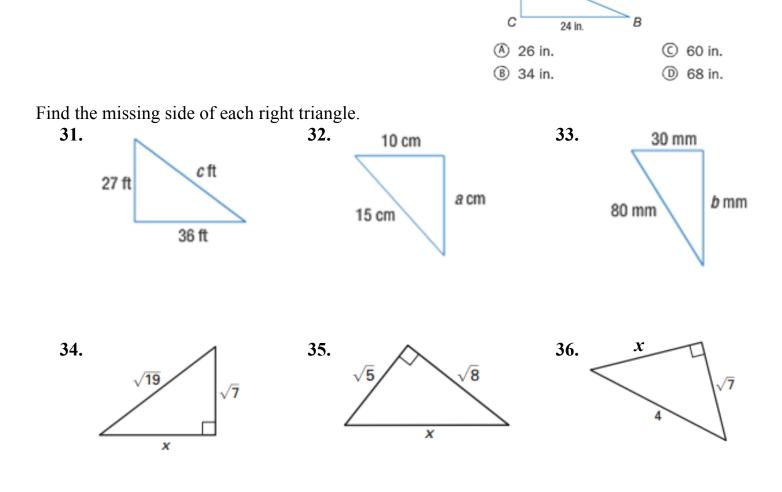
 Is it possible to form a right triangle with these three lengths?
 SHOW YOUR WORK!

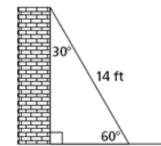
 25. 65, 72, 97
 27. 15, 27, 12

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26. 28, 195, 197 28. 30, 122, 125
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29. A 14 foot piece of wire is strung from the top of a building to a point on the ground that is 6.5 feet from the base of the building as shown in the diagram. How tall is the building?







Α

10 in.