Practice

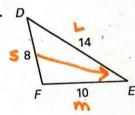
For use with pages 328-334

Use a ruler and protractor to draw the given type of triangle. Mark the largest angle and longest side in red and the smallest angle and shortest side in blue. What do you notice?

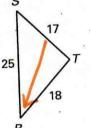
- 1. Obtuse scalene
- 2. Acute isosceles
- 3. Right isosceles

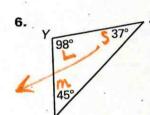
List the sides and the angles in order from smallest to largest.

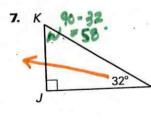




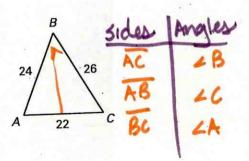
13	LE
FE	LD
DE	ZF

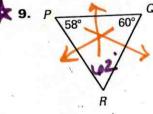






8.





LR + 58+60 = 180

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LESSON 5.5

Practice continued For use with pages 328-334

Sketch and label the triangle described.

- 10. Side lengths: 14, 17, and 19, with longest side on the bottom Angle measures: 45°, 60°, and 75°, with smallest angle at the right
- Side lengths: 11, 18, and 24, with shortest side on the bottom Angle measures: 25°, 44°, and 111°, with largest angle at the left
- 12. Side lengths: 32, 34, and 48, with shortest side arranged vertically at the right. Angle measures: 42°, 45°, and 93°, with largest angle at the top.

make c the longest side

Is it possible to construct a triangle with the given side lengths? If not,

explain why not.

Describe the possible lengths of the third side of the triangle given the lengths of the other two sides \ a - b \ \ X \ a + b

26. $AB = \sqrt{26}, BC = 4\sqrt{5}, AC = 2\sqrt{2}$

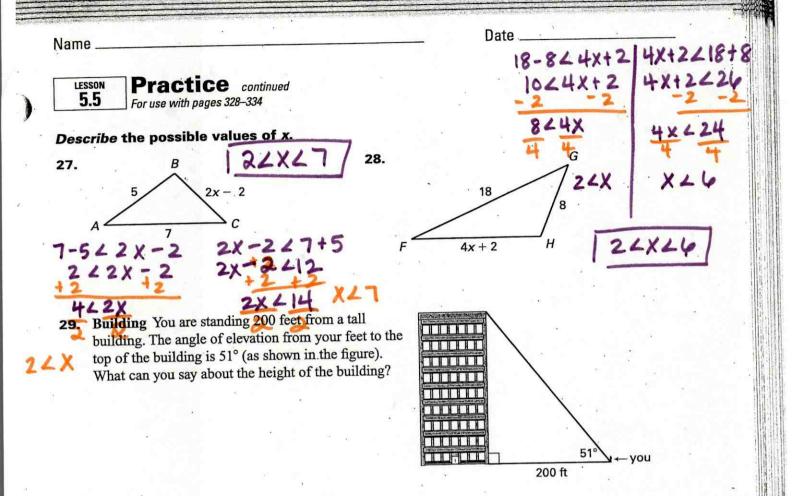
Is it possible to build a triangle using the given side lengths? If so, order the angle measures of the triangle from least to greatest. 4+0

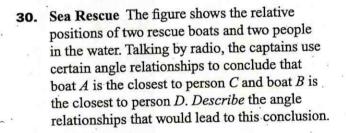
25.
$$RS = \sqrt{46}$$
, $ST = 3\sqrt{5}$, $RT = 5$

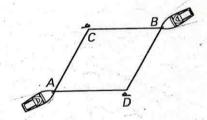
Put the 144 and 3/5 in calculator 24 = 5.1

98









- **31.** Airplanes Two airplanes leave the same airport heading in different directions. After 2 hours, one airplane has traveled 710 miles and the other has traveled 640 miles. *Describe* the range of distances that represents how far apart the two airplanes can be at this time.
- 32. Baseball A pitcher throws a baseball 60 feet from the pitcher's mound to home plate. A batter pops the ball up and it comes down just 24 feet from home plate. What can you determine about how far the ball lands from pitcher's mound? Explain why the Triangle Inequality Theorem can be used to describe all but the shortest and longest possible distances.