Date

NAME

LESSON

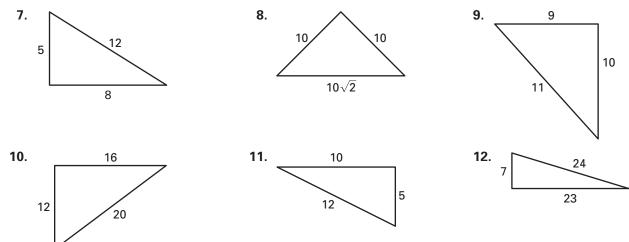
## Practice A

For use with pages 543–549

## Decide whether the numbers can represent the side lengths of a triangle.

**1.** 5, 4, 3**2.** 5, 6, 7**3.** 5, 5, 10**4.** 5, 10, 10**5.** 5, 10, 15**6.** 5, 15, 15

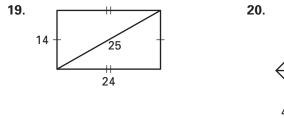
Tell whether the triangle is a right triangle.

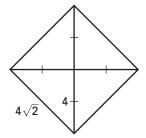


## Classify the triangles with the given side lengths as *right*, *acute*, or *obtuse*.

<b>13.</b> 6, 8, 10	<b>14.</b> 6, 6, 10	<b>15.</b> 6, 10, 10
<b>16.</b> $\sqrt{6}, \sqrt{8}, \sqrt{10}$	<b>17.</b> 0.6, 0.8, 1.0	<b>18</b> . 7, 9, 11

Classify the quadrilateral. Explain how you can prove that the quadrilateral is that type.

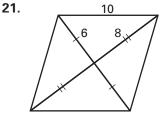


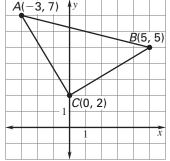


## In Exercises 22–24, you will use two different methods for determining whether $\triangle ABC$ is a right triangle.

- **22.** *Method 1* Find the slope of  $\overline{AC}$  and the slope of  $\overline{BC}$ . What do the slopes tell you about  $\angle ACB$ ? Is  $\triangle ABC$  a right triangle? How do you know?
- **23**. *Method* **2** Use the Distance Formula and the Converse of the Pythagorean Theorem to determine whether  $\triangle ABC$  is a right triangle.
- **24.** Which method would you use to determine whether a given triangle is right, acute, or obtuse? Explain.







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