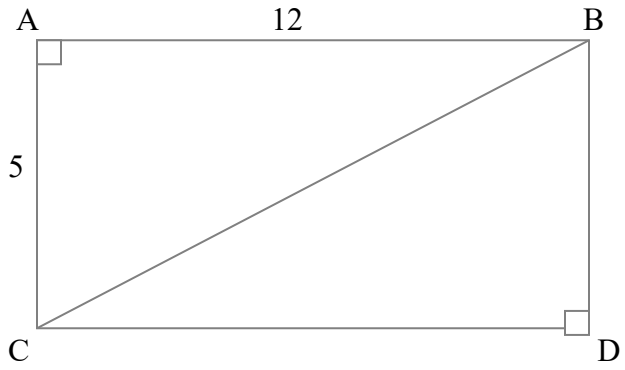
Use following diagram to answer questions 1-3.



1. Based on the rectangle above what is the measurement of <DBA?

   a. 180
   b. 60
   c. 45
   d. 90

2. Based on the rectangle above, if 12 is the length and 5 is the width, what is the length of the diagonal line?

   a. 17
   b. $\sqrt{13}$
   c. 169
   d. 13

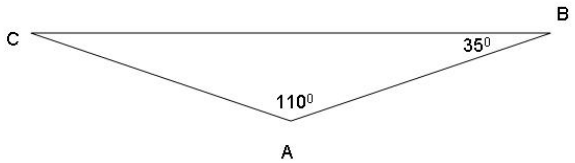
3. Based on the rectangle above what is the measure of <ACB + <BCD?

   a. 45
   b. 90
   c. 135
   d. 180

Use the diagrams to answer the questions.

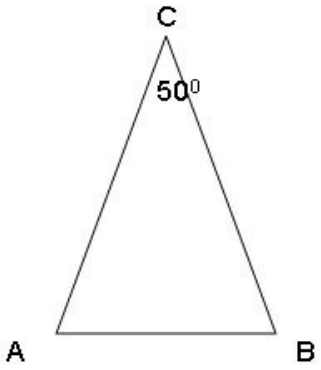
4. What is the measurement of <BCA in the triangle at right?

   a. 180°
   b. 110°
   c. 25°
   d. 35°

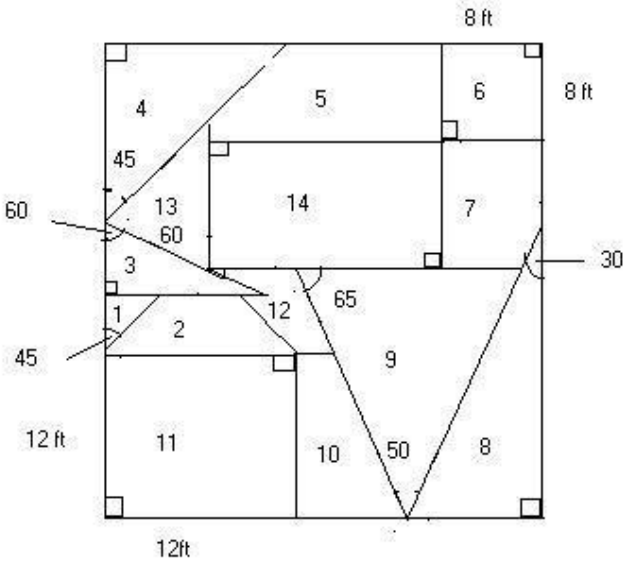


5. The diagram at right shows an isosceles triangle. If the lengths of sides AC and BC are equal, what is the measure of <CAB or <CBA?

   a. 50°
   b. 130°
   c. 65°
   d. 25°



Using the figure below, answer questions 6 through 8.



6. Which piece is similar to #4?

   a. #5
   b. #1
   c. #10
   d. #9

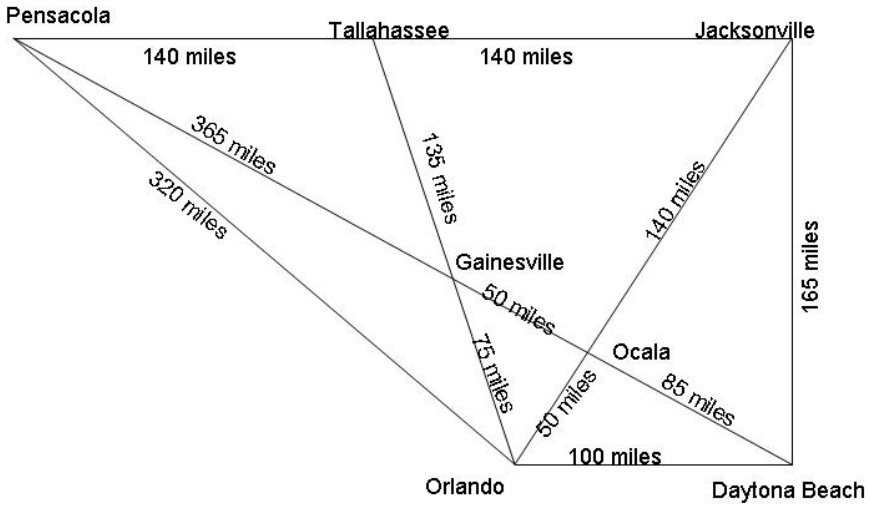
7. Using the figure above, which piece is similar to #8?

   a. #3
   b. #1
   c. #4
   d. #9

8. Using the figure above, which piece is similar to #6?

   a. #2
   b. #14
   c. #11
   d. #7

Use the road map below to answer questions 9 and 10.



9. While getting gas on a trip, you see this sign, what town are you in?

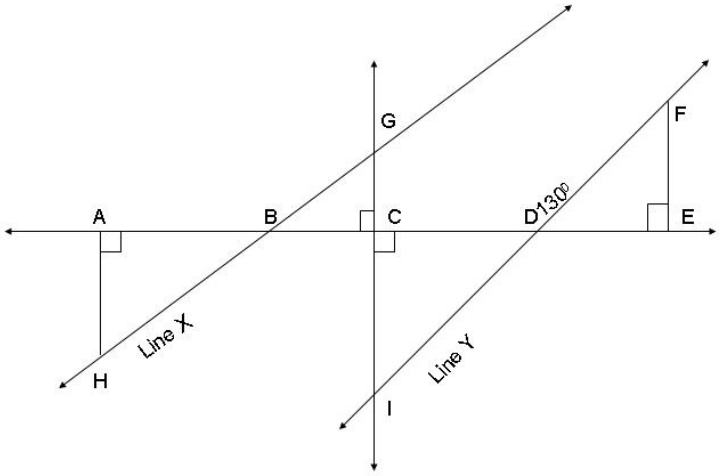
   a. Gainesville
   b. Ocala
   c. Daytona Beach
   d. Orlando

Pensacola	415 miles
Tallahassee	185 miles
Jacksonville	140 miles

10. What is the shortest driving distance from Tallahassee to Daytona Beach?

    a. 270 miles
    b. 310 miles
    c. 305 miles
    d. 185 miles

Use this figure for problems 11 through 13.



11. Using the figure above, which points are vertices of 90-degree angles?

    a. A & M
    b. G & D
    c. C & E
    d. I & D

12. If lines X & Y are parallel, what is the measure of <HBA?

    a. 50
    b. 130
    c. 90
    d. 60

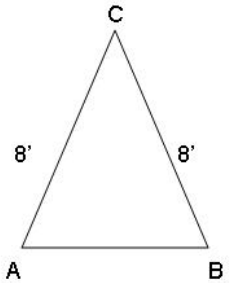
13. Which of these pairs of angles are congruent?

    a. <HBA & <ABG
    b. <HBA & <IDC
    c. <IDE & <FDE
    d. <FDE & <DFE

Use the diagrams to answer the questions.

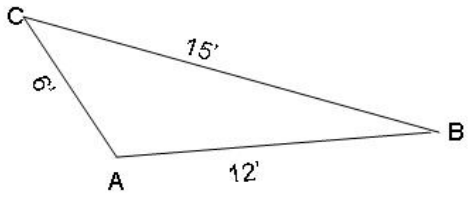
14. What type of triangle is in the figure at right?

    a. Obtuse
    b. Scalene
    c. Isosceles
    d. Equilateral



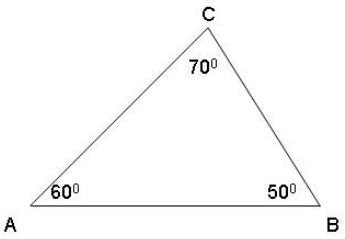
15. What type of triangle is in the figure below?

    a. Acute
    b. Obtuse
    c. Isosceles
    d. Equilateral



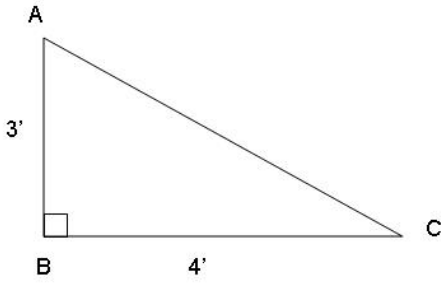
16. What kind of triangle is in the figure at right?

    a. Obtuse
    b. Scalene
    c. Isosceles
    d. Equilateral



17. What is the length of line AC in the triangle at right?

    a. 5 feet
    b. 7 feet
    c. $\sqrt{5}$ feet
    d. $10\sqrt{5}$ feet



Answer Key

1. D
2. D
3. B
4. D
5. C
6. B
7. A
8. C
9. B
10. A
11. C
12. A
13. B
14. C
15. B
16. B
17. A