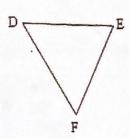
Ch 13 Study Guide

1. Classify the triangle shown as right, obtuse, or acute.



measure of $\angle D = 40^{\circ}$

measure of $\angle E = 60^{\circ}$

measure of $\angle F = 80^{\circ}$

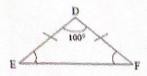
Triangle DEF is a/an acute triangle.

Which word belongs in the box, right, obtuse, or acute?

- 2. Which of the following describes the properties of an isosceles triangle?
 - A. All the sides are equal.
 - B. It must have a right-angle.
 - C. It has 2 angles of the same size.
 - D. Its height must be equal to its base.



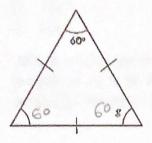
3. In triangle DEF, DE = DF and the measure of $\angle EDF$ is 100°. Find the measure of ∠DEF.



- 80°
- C. 100°
- D. 130°



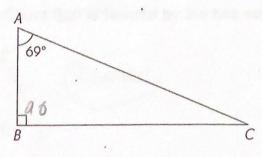
4. The following figure is not drawn to scale. Find the measure of $\angle g$.



120:2=60

- A. 20°
- 40° B.
- 60°
- D. 80°

 $5 \cdot \text{Triangle } ABC \text{ is a right triangle.}$



90+69=1590

Complete with <, >, or =.

$$m \angle BAC \bigcirc m \angle ACB$$

What is the difference in the angle measures of $\angle BAC$ and $\angle ACB$? $\underline{\lor B}$

A 6. Find the measure of the unknown angle in the triangle.

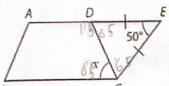


A0164=154

- A. 26° B. 46°
- C. 154°
- D 2000
- D. 206°

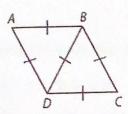
JKL is a triangle in which JK = 8 inches and KL = 11 inches. The length of JL is in whole inches and is greater than 15 inches. List the possible lengths of JL.





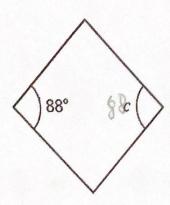
DC is a line segment. Quadrilateral ABCD is a trapezoid and triangle DCE is an isosceles triangle. The measure of \angle DEC is 50°. Find the measure, in degrees, of \angle x.

9. Name the figure that is formed by the two equilateral triangles shown.

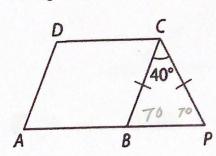




0. The rhombus is not drawn to scale. Find the measure of $\angle c$.



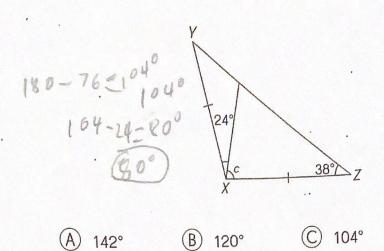
- A. 17°
- B. 77°
- (C) 88°
- D. 97°
- In this figure, \overline{AP} is a line segment. Quadrilateral ABCD is a parallelogram and triangle BPC is isosceles. Find the measure, in degrees, of $\angle DCB$.



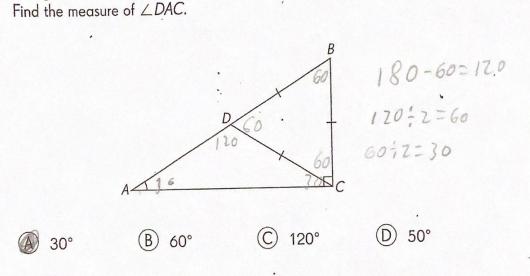
- D /2. Which of these sets of side lengths of a triangle is possible?
 - A 4 ft, 9 ft, 5 ft

- B 5 cm, 5 cm, 10 cm
- © 6 in., 7 in., 8 in.
- (D) 3 m, 6 m, 3 m

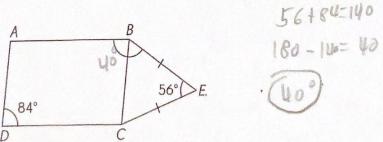
13. Triangle XYZ is an isosceles triangle. Find the measure of $\angle c$.



Triangle ABC is a right triangle and BCD is an equilateral triangle.



15. ABCD is a parallelogram where $\overline{AB} \parallel \overline{DC}$. Triangle BCE is an isosceles triangle. Find the measure of $\angle ABE$.



80°