

Name: Loz

Class: Math

Date: 5-18-2021

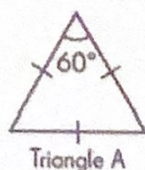
ID: A

Ch 13 Test

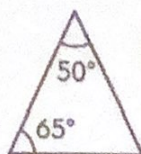
$$-4 \quad \frac{16}{20} + 2 = \frac{18}{20}$$

A

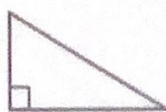
1. The triangles are not drawn to scale. Which is an equilateral triangle?



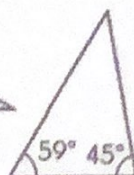
Triangle A



Triangle B



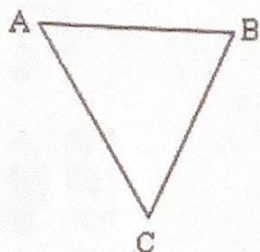
Triangle C



Triangle D

- ☒ A. Triangle A
- ☐ B. Triangle B
- ☐ C. Triangle C
- ☐ D. Triangle D

2. Classify the triangle shown as equilateral, isosceles, or scalene.



$$AB = 2.5 \text{ cm}$$

$$BC = 2.5 \text{ cm}$$

$$AC = 3 \text{ cm}$$

Triangle ABC is a/an Isosceles triangle.

Which word belongs in the box, *equilateral*, *isosceles*, or *scalene*?

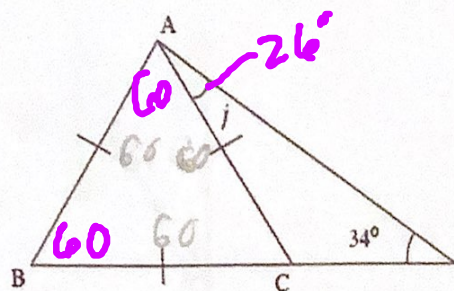


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3. Find the measure, in degrees, of  $\angle j$  in the figure.

- 2



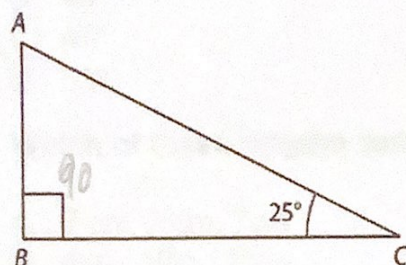
$$60 + 34 = 94$$

$$180 - 94 = 86$$

86  
- 60  
-----  
26

$\angle j = 86^\circ$

4. Triangle ABC is a right triangle. The measure of  $\angle ABC$  is 90 and the measure of  $\angle ACB$  is 25°. Find the measure of  $\angle BAC$ .



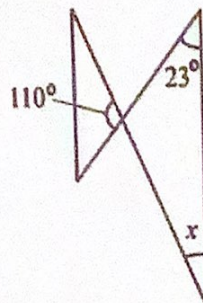
- A. 60°  
B. 65°  
C. 70°  
D. 75°

$$90 + 25 = 115$$

$$180 - 115 = 65$$



- C 5. Find the measure of  $\angle x$  in the figure.



$$110 + 23 = 133$$

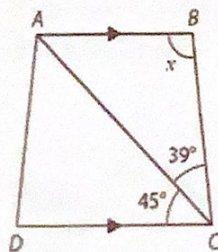
$$180 - 133 = 47$$

- A.  $23^\circ$   
 B.  $46^\circ$   
 C.  $47^\circ$   
 D.  $53^\circ$

- D 6. Which of these lengths cannot form a triangle?

- A. 7 cm, 7 cm, 7 cm  
 B. 4 in., 10 in., 10 in.  
 C. 11 cm, 13 cm, 15 cm  
 D. 20 cm, 6 cm, 12 cm

7. Quadrilateral  $ABCD$  is a trapezoid.  $AB \parallel CD$ . Find the measure, in degrees, of  $\angle x$ .



$$43 + 39 = 84$$

$$180 - 84 = 96$$

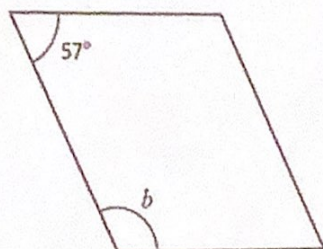
$\angle x = 96^\circ$



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- C 8. The parallelogram is not drawn to scale. Find the measure of  $\angle b$ .

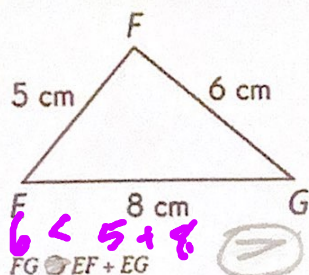


$$180 - 57 = 123$$

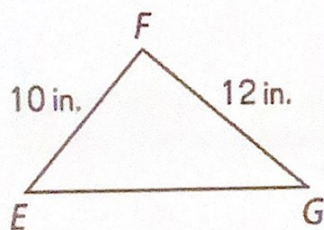
- A.  $43^\circ$
- B.  $57^\circ$
- ☒ C.  $123^\circ$
- D.  $303^\circ$

9. Which symbol,  $<$ ,  $>$ , or  $=$ , will make the statement about triangle EFG true?

-2



10. Side EG is longer than 15 inches. What whole number of inches could its length be? Give all possible answers. Extra Credit 2 points



write answers here:

13, 16, 20, 17, 18

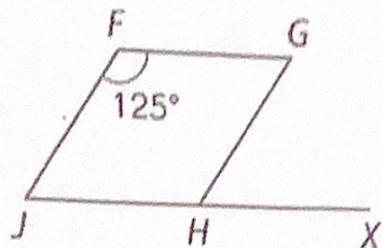
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11. Quadrilateral  $FGHJ$  is a parallelogram. What is the measure of  $\angle GHX$ ?

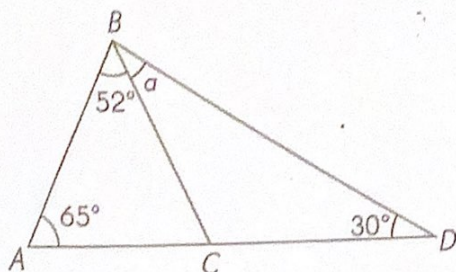


$$\begin{array}{r} 180 \\ - 125 \\ \hline 55 \end{array}$$

$$\angle GHX = 55^\circ$$

The figures in this section are not drawn to scale.

12.  $ABC$  and  $BCD$  are triangles. Find the unknown angle measure.



$$a = 33^\circ$$

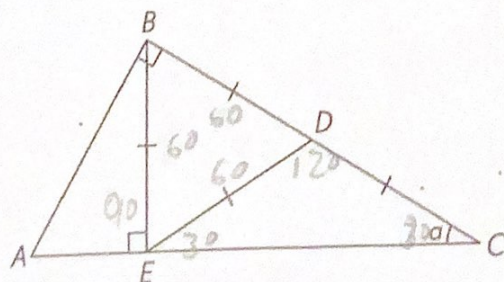
$$65 + 52 + 30 = 147$$

$$180 - 147 = 33$$

$$33^\circ$$

13.

Triangle  $ABC$  is a right triangle. Triangle  $BDE$  is an equilateral triangle and Triangle  $CDE$  is an isosceles triangle. Find the measure of  $\angle a$ .



$$a = 30^\circ$$

$$180 - 90 = 90$$

$$90 \div 3 = 30$$

$$30 + 30 = 60$$

$$180 - 60 = 120$$

$$30^\circ$$