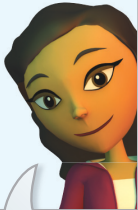



4-5 Solve It!




You may think identifying isosceles and equilateral triangles is old news! Get ready to see them in a new light.

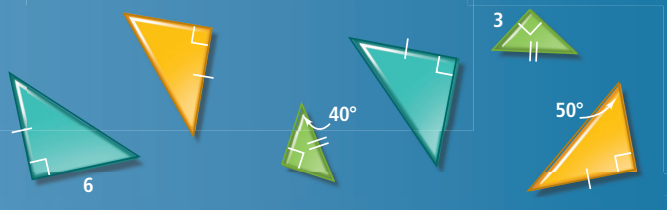


SOLVE IT!

Getting Ready!

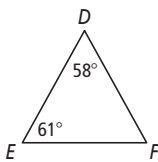


The triangles of the same color are congruent. Arrange the triangles to form one large triangle. You must use all the pieces. Make a sketch of this triangle. Classify this triangle by its sides. What are the angle measures of this triangle? Explain.

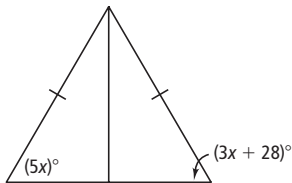


4-5 Lesson Quiz

1. Is $\overline{DE} \cong \overline{DF}$? Explain.



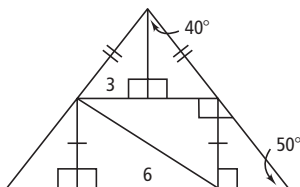
2. Do you UNDERSTAND? What is the value of x ?



3. Isosceles triangle XYZ has base \overline{XY} and $m\angle Y = 34$. What is $m\angle Z$?

Answers

Solve It!



isosc.; 50, 50, 80

Lesson Quiz

1. Yes; $m\angle F = 61$, so $\overline{DE} \cong \overline{DF}$ by the Converse of the Isosceles Triangle Theorem.
2. 14
3. 112