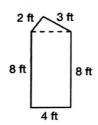
Cumulative Test

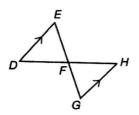
9B

1. (23) A ribbon surrounds the edge of a circular hat that has a radius of 8 inches. Find the length of the ribbon to the nearest tenth inch. Use 3.14 for π .

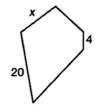
- 2. (37) Find a line that is parallel to y = x + 7 and passes through the point (2, 4).
- 3. (20) State the converse of this statement: If a quadrilateral is a square, then it is a rhombus. Determine whether the original statement and its converse are true.
- 4. (40) Find the perimeter of the composite figure below.

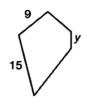


5. (30) Write a two-column proof to prove that $\triangle EDF \cong \triangle GHF$ given that F is a midpoint of \overrightarrow{DH} and $\overrightarrow{DE} \parallel \overrightarrow{GH}$.

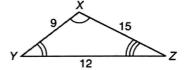


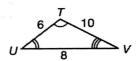
- 6. (42) Find the distance from the point P(2, 6) to the line x = 6.
- 7. (44) The pentagons in the diagram are similar. Find the values of x and y.





8. (41) Consider $\triangle XYZ$ and $\triangle TUV$ shown below. Write a proportion to show that XY: TU = XZ: TV.





- 9. (32) In triangle DRS, \overline{DN} is a median, and X is the centroid of the triangle. What is the length of \overline{DX} if \overline{DN} measures 53.4 centimeters?
- 10. (33) A triangle has side lengths that measure 9, 10, and 13 units. Classify the triangle by side lengths and angles.