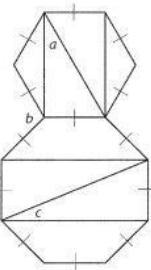
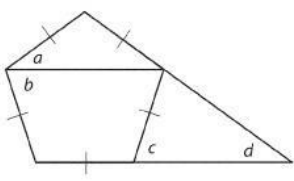
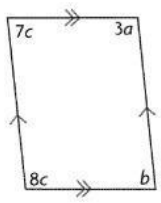
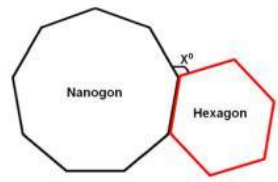
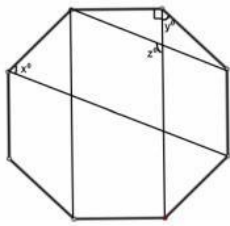


1. Determine the sum of the measures of the interior angles of this polygon.  a. 1080° b. 1440° ☐ c. 720° d. 540° ☐	4. Determine the sum of the measures of the angles in a 9-sided convex polygon. a. 1720° b. 1440° c. 1080° d. 1260° ☐	
2. Each interior angle of a regular convex polygon measures 144°. How many sides does the polygon have? a. 10 b. 11 c. 8 d. 9 ☐	 Use for Question 5, 6, and 7	5. Determine the value of b. a. 95° b. 100° ☐ c. 120° d. 105°
3. Determine the value of a and d.  a. $54^\circ, 36^\circ$ ☐ b. $30^\circ, 36^\circ$ c. $36^\circ, 36^\circ$ d. $32^\circ, 36^\circ$ e. $34^\circ, 36^\circ$	6. Determine the value of a. a. 60° b. 34° ☐ c. 30° d. 28° 7. Determine the value of c. a. 22.5° b. 30° ☐ c. 67.5° d. 26.5°	

Short Answer (18pts)

6. Determine the sum of the measures of the angles in an 18-sided convex polygon. Show your calculation. Sum of Interior angles = _____ 2	7. Each interior angle of a regular convex polygon measures 156°. How many sides does the polygon have? Show your calculations. # of Sides = _____ 3
8. Abbie is measuring the exterior angles of a convex pentagon. So far, she has measured 90°, 90°, 120°, and 40°. What is the measure of the last exterior angle? Show your calculation. Angle = _____ 2	9. Determine the values of a, b, and c.  a = _____ b = _____ c = _____ 3

10. In the diagram below, two regular polygons are shown. Calculate x.  $X^\circ =$ _____ 3	11. Given the Octagon below, Calculate x, y and z.  x = _____ y = _____ z = _____ 5
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