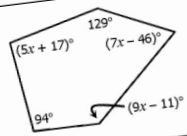
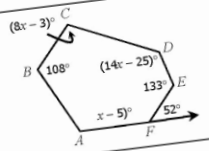
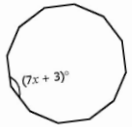
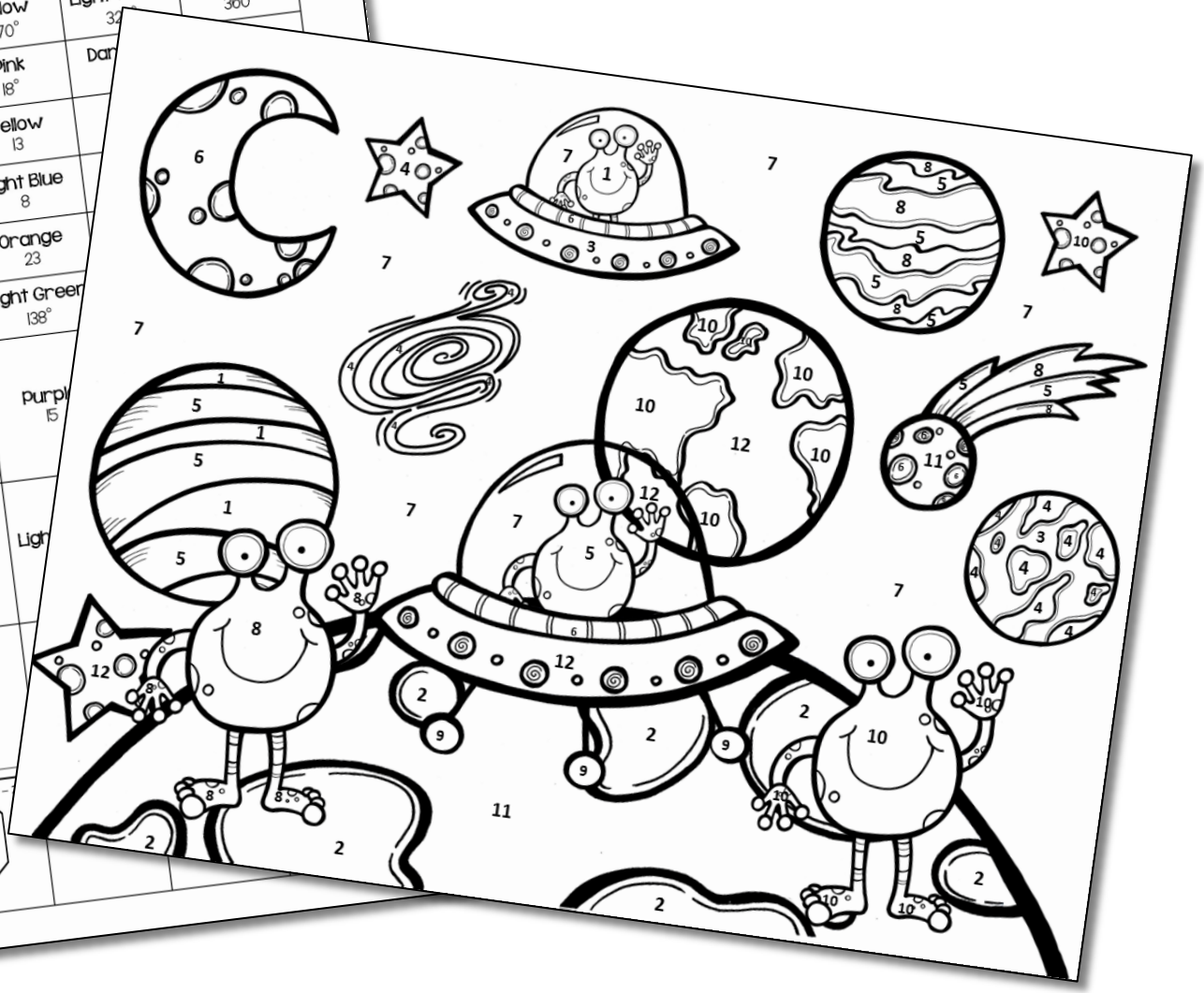
ANGLES OF POLYGONS

Coloring Activity!

Name: _____ Per: _____

Date: _____

Directions: Solve each problem. Circle the answer that matches your solution. Color the picture using your selected answers. Colors may be used more than once. Staple all work to this paper!

1 What is the sum of the measures of the interior angles of a 23-gon?	Purple 3,460°	Orange 3,620°	Dark Green 3,780°
2 What is the measure of each interior angle of a regular 18-gon?	Black 140°	Brown 160°	Light Blue 190°
3 What is the sum of the measures of the exterior angles of a dodecagon?	Yellow 270°	Light Green 3	Red 360°
4 What is the measure of each exterior angle of a regular 20-gon?	Pink 18°	Dar	
5 If the sum of the interior angles of a polygon is 1,980°, how many sides does it have?	Yellow 13		
6 If an interior angle of a regular polygon measures 144°, how many sides does it have?	Light Blue 8		
7 If an exterior angle of a regular polygon measures 15°, how many sides does it have?	Orange 23		
8 If the measures of a heptagon are 127°, 152°, 112°, 123°, 135°, and 105°, what is the measure of the remaining angle?	Light Green 138°		
9 Solve for x. 	Purpl 15		
10 Find m∠C. 	Ligh		
11 If the figure is a regular polygon, find the value of x. 			
12 If the figure is a regular polygon, find the value of x.