

MathFLIX CHALLENGE

Measurement: Perimeter of Polygons

Complete the table below.

| Polygon | # of sides (n) | Perimeter (P) | Equation (s = P/n) | Length of Side(s) |
|----------------------|---------------------------|--------------------------|-------------------------------|--------------------------|
| Equilateral triangle | 3 | 60 | $60/3 = 20$ | 20 |
| Square | 4 | 60 | $60/4 = 15$ | 15 |
| Regular pentagon | 5 | 60 | | |
| Regular hexagon | 6 | 60 | | |
| Regular heptagon | 7 | 60 | | |
| Regular octagon | | 60 | | |
| Regular nonagon | | 60 | | |
| Regular decagon | | 60 | | |
| Regular unagon | | 60 | | |
| Regular dodecagon | | 60 | | |

On the back of the paper, make a sketch of each polygon and label the side. (What happens to the length of the polygon sides as the number of sides increases?)

Find the perimeter of the COUNTDOWN studio.

