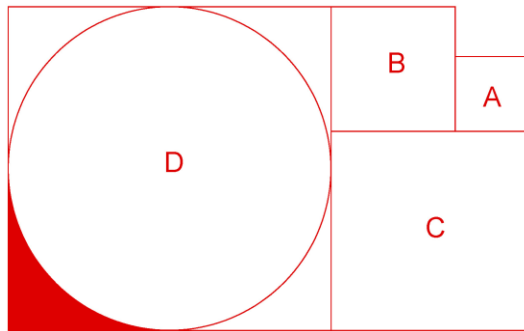




GEOD CORPORATION

AERIAL MAPPING · LAND SURVEYING · UTILITY MARKOUTS
A CERTIFIED SMALL BUSINESS ENTERPRISE

For our Fall 2019 newsletter, you were asked to give the area of the solid filled portion of the diagram?



Perimeter "A" = 12ft, => Side "A" = 3ft

Side "B" = Side "A" + 2ft = 5ft

Side "C" = Sides "A" + "B" = 3ft + 2ft = 8ft

Side "D" = Sides "B" + "C" = 5ft + 8ft = 13ft

Area "D" = 13ft x 13ft = 169ft²

Diameter Circle = Side "D" = 13 => radius Circle = 6.5 ft

Area Circle = $\pi r^2 = \pi \times 6.5\text{ft} \times 6.5\text{ft} = 132.732\text{ft}^2$

Area solid red region = (Area "D" – Area Circle) x $\frac{1}{4}$ = (169 – 132.732) x $\frac{1}{4}$ = 36.268 x $\frac{1}{4}$ = 9.067ft²

Franz W. Laki, PE, from SESI Consulting Engineers was drawn at random from the responses received and will receive a \$200 Amazon Gift Card. Congratulations Franz!

Thanks to everyone who participated!