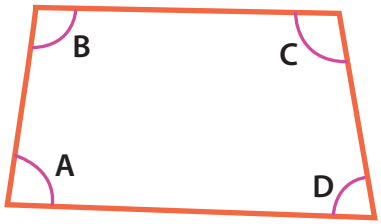
Math
Geometry

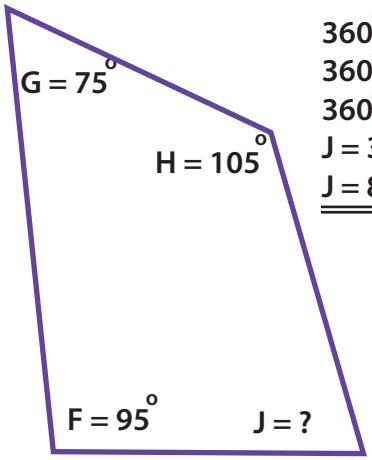
Answer Sheet
The Missing Angle: Quadrilaterals

In every quadrilateral, all four angles add up to 360°.

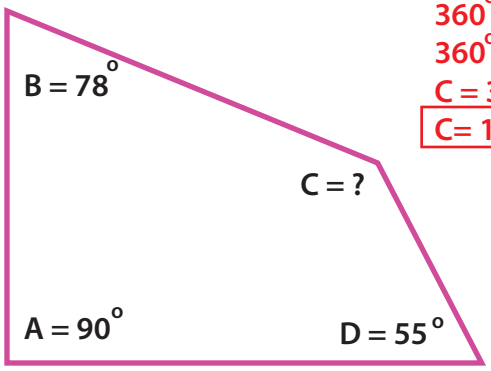


$360 = A + B + C + D$

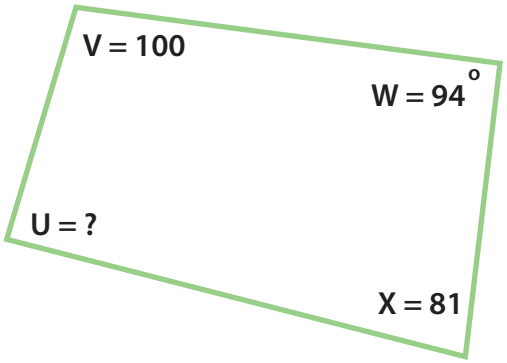
Use this rule to find the missing angle in the quadrilaterals. See the example.



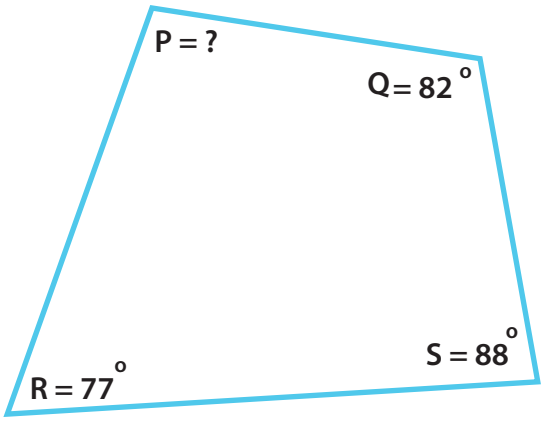
$360^\circ = F + G + H + J$
$360^\circ = 95^\circ + 75^\circ + 105^\circ + J$
$360^\circ = 275^\circ + J$
$J = 360^\circ - 275^\circ$
$J = 85^\circ$



$360^\circ = A + B + C + D$
$360^\circ = 90^\circ + 78^\circ + C + 55^\circ$
$360^\circ = 223^\circ + C$
$C = 360^\circ - 223^\circ$
$\boxed{C = 137^\circ}$



$360^\circ = U + V + W + X$
$360^\circ = U + 100^\circ + 94^\circ + 81^\circ$
$360^\circ = 275^\circ + U$
$U = 360^\circ - 275^\circ$
$\boxed{U = 85^\circ}$



$360^\circ = P + Q + R + S$
$360^\circ = P + 82^\circ + 77^\circ + 88^\circ$
$360^\circ = 247^\circ + P$
$P = 360^\circ - 247^\circ$
$\boxed{P = 113^\circ}$