

Solutions for GeoWorkSheet No. 54

Solutions sheet No. 54		Mixed Angle Sums 4
	Answer	Reason
1	$a = 47$	Straight angles are supplementary (180°)
2	$b = 62$	Angle sum of a triangle (180°)
3	$c = 94$	Angle sum of a quadrilateral (360°)
4	$d = 114$	Cointerior angles in parallel lines are supplementary (add to 180°)
5	$e = 81$	Vertically opposite angles are equal
6	$f = 57$	Alternate angles in parallel lines are equal
7	$g = 100$	Exterior angle of a triangle equals the sum of the remote interior angles
8	$h = 122$	Corresponding angles in parallel lines are equal
9	$j = 57$	Angle sum of a triangle (180°)
10	$k = 93$	An angle of revolution is 360°
11	$m = 59$	Corresponding angles in parallel lines are equal
12	$n = 97$	Alternate angles in parallel lines are equal
13	$p = 61$	Cointerior angles in parallel lines are supplementary (add to 180°)
14	$q = 97$	Alternate angles in parallel lines are equal
15	$r = 45$	Exterior angle of a triangle equals the sum of the remote interior angles
16	$s = 27$	Angle sum of a triangle (180°)
17	$t = 99$	Exterior angle of a triangle equals the sum of the remote interior angles
18	$u = 37$	Angle sum of a quadrilateral (360°)
19	$v = 113$	Vertically opposite angles are equal
20	$w = 87$	Angle sum of a quadrilateral (360°)