Angles in triangles — sum is 180°

MODULE 7 · SHAPE AND SPACE — 2D & 3D SHAPE, SYMMETRY, TESSELLATION, ANGLES, COORDINATES, EIGHT COMPASS POINTS

DATA & CHANCE

INVESTIGATE

Does every triangle's three angles really add to 180°?

Draw **five very different triangles** on plain paper — a tall thin one, a wide flat one, a right-angled one, an equilateral one, and one of your own choosing. Measure each angle with a **protractor** and find the total for each triangle. Do all five totals come out the same? When they don't, what small errors could explain the difference — your ruled line, your protractor reading, or the rule itself? Now cut one triangle out, tear off the three corners and place them together at a single point — what straight angle do they make?