

a Describe the locus of points 3 cm from a point. <i>a circle, radius 3 cm</i> a fixed distance from a point	b Which loop is 1 cm from the line? <i>r</i> a fixed distance from a line segment	c Which line is as far from A as from B? <i>q</i> equidistant from two points	d P is on the perpendicular bisector of AB. PA = 6 cm. Find PB. <i>6 cm</i> the perpendicular bisector property
e Which line is equally far from both? <i>q</i> equidistant from two lines	f Arcs of radius AB are drawn from A and from B. They meet at C. Find angle CAB. <i>60°</i> the 60° angle from equal arcs	g Two parallel lines are 6 cm apart. Describe the locus equidistant from both. <i>a line 3 cm from each</i> equidistant from two parallel lines	h Describe the locus inside a square equidistant from two sides that meet. <i>a diagonal</i> an angle bisector inside a shape
i Find the perimeter of the locus 1 cm inside a 6 cm by 4 cm rectangle. <i>12 cm</i> a fixed distance inside a shape	j What shape is the locus 1 cm outside a square at each corner? <i>a quarter circle</i> a fixed distance round a corner	k AB = 3 cm. How many points are 2 cm from A and 2 cm from B? <i>2</i> where two loci cross	l Which point is in the loop, nearer A? <i>P</i> a region set by two loci

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