FITTING STROKE WEIGHTS TO A ONE INCH GRID

This chart is intended to show the relationship between stroke weights and the grid in Adobe Illustrator. Set your number of subdivisions to multiples of 8, then, by using stroke weights that are multiples of 9, your strokes will align to the grid. The numbers at the intersections of subdivisions and stroke weight represent the number of grid units covered by the stroked element.

OF SUBDIVISIONS

STROKE WEIGHT (PTS)	8	16	32	64	128
9	1	2	4	8	16
18	2	4	8	16	32
36	4	8	16	32	64
72	8	16	32	64	128
144	16	32	64	128	256

You might prefer to switch the numbers up, and subdivide the grid by multiples of 9. This would allow you to use stroke weights in multiples of 8. I put an X through the first option in these charts, because you need to cover at least 2 grid units to successfully have your outlined strokes stick to the grid. Just remember, keep one of these categories in multiples of 8, and the other in multiples of 9.

OF SUBDIVISIONS

STROKE WEIGHT (PTS)	9	18	36	72	144
8	1	2	4	8	16
16	2	4	8	16	32
32	4	8	16	32	64
64	8	16	32	64	128
128	16	32	64	128	256