Small Data for Interval Problems

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As for the interval problems in 2-dimensional space and on the circle, I wrote two codes using brute force and acquired some fractional answer for several small cases collective.

n	2d-fraction	2d-decimal	circle-fraction	circle-decimal
2	$\frac{4}{9}$	0.44444	$\frac{5}{6}$	0.833333
3	$\frac{268}{675}$	0.397037	<u>53</u> 60	0.883333
4	$\frac{3754}{11025}$	0.340499	$\frac{191}{210}$	0.909524
5	$\frac{49402}{165375}$	0.298727	$\frac{4681}{5040}$	0.92877
6	-	-	$\frac{156823}{166320}$	0.942899
7	-	-	$\frac{4123331}{4324320}$	0.953521
8	-	-	$\frac{124757879}{129729600}$	0.961676