The Cantor Set

1) What is it?

2) What are its characteristics?

3) How big is the Cantor Set?

4) Decimal representation - base 3

5)What points are in the Cantor set?

$\frac{1}{2}$

$\frac{1}{3}\ \frac{2}{3}$

$\frac{1}{4}\ \frac{3}{4}$

$\frac{1}{5}\ \frac{2}{5}\ \frac{3}{5}\ \frac{4}{5}$

$\frac{1}{6}\ \frac{5}{6}$

$\frac{1}{7}\ \frac{2}{7}\ \frac{3}{7}\ \frac{4}{7}\ \frac{5}{7}\ \frac{6}{7}$

$\frac{1}{8}\ \frac{3}{8}\ \frac{5}{8}\ \frac{7}{8}$

$\frac{1}{9}\ \frac{2}{9}\ \frac{4}{9}\ \frac{5}{9}\ \frac{7}{9}\ \frac{8}{9}$

$\frac{1}{10}\ \frac{3}{10}\ \frac{7}{10}\ \frac{9}{10}$

$\frac{1}{11}\ \frac{2}{11}\ \frac{3}{11}\ \frac{4}{11}\ \frac{5}{11}\ \frac{6}{11}\ \frac{7}{11}\ \frac{8}{11}\ \frac{9}{11}\ \frac{10}{11}$

$\frac{1}{12}\ \frac{5}{12}\ \frac{7}{12}\ \frac{11}{12}$

$\frac{1}{13}\ \frac{2}{13}\ \frac{3}{13}\ \frac{4}{13}\ \frac{5}{13}\ \frac{6}{13}\ \frac{7}{13}\ \frac{8}{13}\ \frac{9}{13}\ \frac{10}{13}\ \frac{11}{13}\ \frac{12}{13}$