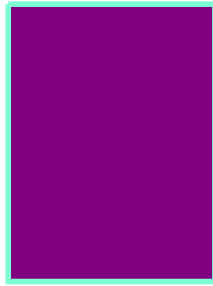


How many times can
you fold a piece of
 $8\frac{1}{2}" \times 11"$ sheet of paper?

guess : 50, 12, 32

* world's strongest
person can only
fold it 7 times

Folds



$$= 1$$



$$= \frac{1}{2}$$



$$= \frac{1}{4}$$



$$= \frac{1}{8}$$



$$= \frac{1}{16}$$



$$= \frac{1}{32}$$



$$= \frac{1}{64}$$



$$= \frac{1}{128}$$

1

2

3

4

5

6

7

How small can you go? * notice: the

denominator doubles every time you cut the paper in half.

(next page for answers)

* I tried 26 folds

$$\begin{array}{ccccccc}
 1, & \frac{1}{2}, & \frac{1}{4}, & \frac{1}{8}, & \frac{1}{16}, & \frac{1}{32}, & \frac{1}{64}, \\
 \frac{1}{128}, & \frac{1}{256}, & \frac{1}{512}, & \frac{1}{1024}, & \frac{1}{2048}, & & \\
 \frac{1}{4096}, & \frac{1}{8192}, & \frac{1}{16384}, & & & & \\
 \frac{1}{32768}, & \frac{1}{65536}, & \frac{1}{131072}, & & & & \\
 \frac{1}{262144}, & \frac{1}{524288}, & \frac{1}{1048576}, & & & & \\
 \frac{1}{2097152}, & \frac{1}{4194304}, & \frac{1}{8388608}, & & & & \\
 \frac{1}{16777216}, & \frac{1}{33554432}, & \frac{1}{67108864}, & & & &
 \end{array}$$

