

MARCH MATH MADNESS

What fraction of the teams are eliminated each round?

After the first round, $\frac{1}{2}$ the teams remain.
After the second, what fraction of the original 64 teams remain?

After the third?
The fourth?
The fifth?
The sixth?

Write your fractions as decimals and add them together. (.5 + .25 + ...) Do you get 1?

If the NCAA wanted to add a seventh round, how many teams would they need?

If NCAA added a seventh round, what fraction of the teams would remain after the seventh round?

Write that fraction as a decimal and add it to your previous total.

Now, do you get 1?

If NCAA kept adding rounds, could your sum eventually equal 1?



MARCH MATH MADNESS

What fraction of the teams are eliminated each round? $\frac{1}{2}$

After the first round, $\frac{1}{2}$ the teams remain.

After the second, what fraction of the original 64 teams remain? $\frac{1}{4}$

After the third? $\frac{1}{8}$

The fourth? $\frac{1}{16}$

The fifth? $\frac{1}{32}$

The sixth? $\frac{1}{64}$

Write your fractions as decimals and add them together. (.5 + .25 + ...) Do you get 1? **No (.984375)**

If the NCAA wanted to add a seventh round, how many teams would they need? **128**

If NCAA added a seventh round, what fraction of the teams would remain after the seventh round?

$\frac{1}{128}$

Write that fraction as a decimal and add it to your previous total.

Now, do you get 1? **No (.99218)**

If NCAA kept adding rounds, could your sum eventually equal 1? **No**

