## the nmf weekly

## Dividing By Zero : Solutions

puzzle \#1
a) What's $4 \div(1 / 2)$ ?

That is, if I give four pies to each half of a student, how much pie does a whole student receive?
b)What's $10 \div(2 / 3)$ ?

That is, if two-thirds of a student receives ten pies, how much pie does a whole student receive?

## ANSWER TO PUZZLE 2:

Double the number of pies and the number of students. This won't change the amount of pie each student recieves, and it shows that each student gets five-ninths of a pie.

For more on this "pies-per-student" approach to thinking about fractions see Chapter 5 here.

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The NMF Weekly is written by mathematician Dr. James Tanton as a resource for friends and fans of the 2021 National Math Festival.

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