

Math on your birthday

### Ingredients

#### Crust

- 1 cup Gold Medal<sup>™</sup> all-purpose flour
- 1/2 teaspoon salt
- 1/3 cup plus 1 tablespoon shortening
  - 2 to 3 tablespoons cold water

### Filling

- 8 cups sliced cored peeled apples
- 1/2 cup granulated sugar
- 1/4 cup Gold Medal™ all-purpose flour
- 1/4 teaspoon ground cinnamon
  - 1 tablespoon lemon juice

### Topping

- 1/2 cup unsalted butter, softened
  - 1 cup Gold Medal<sup>™</sup> all-purpose flour
- 2/3 cup packed brown sugar
  - 1 tablespoon granulated sugar



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Double the recipe All 1 cup ingredients get 2 green cups

The 8 cups apples just now gets 16 cups

All 1/2 sízes now take the green measure of 1 cup

The 1/3 sízes just take the orange 1/3 cup twice

The 1/4 size now take 2 blue 1/4 measures

The 2/3 size now needs 4/3 so you can use the orange measure cup four times or one green (1 cups is 3/3) plus 1 orange.











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### half the recipe

All 1 cup ingredients now get a red measure

The 8 cups apples just now gets 4 cups

All 1/2 sízes now take the blue measure of 1/4 cup

The 1/3 sizes need 1/6 so we buy an extra measure or see on the next slide

The 1/4 size now take 1 yellow 1/8 measures

The 2/3 size now needs 1/3 so you can use the orange measure











How to get 1/6 when you cannot find a suitable measure??

Fill the ½ cup with shortening Next scoop out 1/3 cup of the shortening and then What is left in the ½ cup will be 1/6

In technical terms:

 $\frac{1}{2} - \frac{1}{3} = \frac{3}{6} - \frac{2}{6} = \frac{1}{6}$ 

So fill the red and scoop out with the orange and what is left in the red measuring cup will be your 1/6 shortening









## Pízza

16 people are coming All will eat 2 slices  $16 \times 2 = 32$ 

Domínos cuts pízzas ín 8 píeces So  $32 \div 8 = 4$  you'll need 4 pízzas





## Pízza

OK fine 6 vegetarians they need  $6 \times 2 = 12$  slices

10 others they need 10 x 2 = 20 slíces

So we need  $12 \div 8$  which is 1 and something so we need 2 veggie pizzas and will have 16 slices, 12 eaten by the vegetarians and 4 go in the freezer

For the others we need  $20 \div 8$  which is more than 2 so we need 3 pizzas that gives us  $3 \times 8 = 24$  slices and so 20 will get eaten and the other four go in the freezer also.



