

Multiplying Tricks

old way

$$\frac{2}{5} \times \frac{5}{9} = \frac{10}{45} = \frac{2}{9}$$

trick way

$$\frac{2}{\cancel{5}} \times \frac{\cancel{5}}{9} = \frac{2}{9}$$

$$\frac{\cancel{4}}{7} \times \frac{3}{\cancel{4}} = \frac{3}{7}$$

Deanna's cake recipe needs to be doubled for a party. How much of each ingredient should Deanna use?

~~old way~~

$$2 \times 2\frac{1}{4}$$

$$2 \times \frac{9}{4}$$

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

Cake Recipe		
ingredient	amount	doubled amount
flour	$2\frac{1}{4}$ cups	$4\frac{1}{2}$
sugar	$1\frac{3}{4}$ cups	$2 \times 1 = 2$ $2 \times \frac{3}{4} = \frac{6}{4} = \frac{3}{2}$ $2\frac{3}{2} = 3\frac{1}{2}$
butter	$1\frac{1}{2}$ cups	$2 \times 1 = 2$ $2 \times \frac{1}{2} = 1$ $2 + 1 = 3$
milk	$\frac{3}{4}$ cup	$2 \times \frac{3}{4} = \frac{6}{4} = 1\frac{1}{2}$

~~new way~~

$$2 \times 2\frac{1}{4}$$

$$2 \times 2 = 4$$

$$2 \times \frac{1}{4} = \frac{1}{2}$$