4) Jill can paint a fence in eight hours. Stefan can paint the same fence in ten hours. How long would it take them if they worked together?

$R \cdot T = W$

	R	× T	= W
J	$\frac{1}{8}$	t	$\frac{t}{8}$
S	$\frac{1}{10}$	t	$\frac{t}{10}$

$40\left[\frac{t}{8} + \frac{t}{10} = 1\right]$

$5t + 4t = 40$

$9t = 40$

$t = 4.44$ hours

1) Working together, Stefan and Daniel can sweep a porch in 5.32 minutes. Had he ~~done~~ it alone it would have taken Daniel 13 minutes. How long would it take Stefan to do it alone?

	R	× T	= W
S	$\frac{1}{x}$	5.32	$\frac{5.32}{x}$
D	$\frac{1}{13}$	5.32	$\frac{5.32}{13}$

$13x\left[\frac{5.32}{x} + \frac{5.32}{13} = 1\right]$

$13(5.32) + 5.32x = 13x$

$69.16 = 7.68x$

$9 = x$

minutes