Cameron pays $0.95 per song with his ~~current~~ music service. A new music download service charges $0.89 per song with just a $12 joining fee. When will the cost be the same?

HINTS

> Write an equation to represent the cost for any number of songs, s.

> Solve the equation to find the number of songs at which the cost for each option will be the same.

> Interpret your solution.

Current: $0.95s$

New: $0.89s + 12$

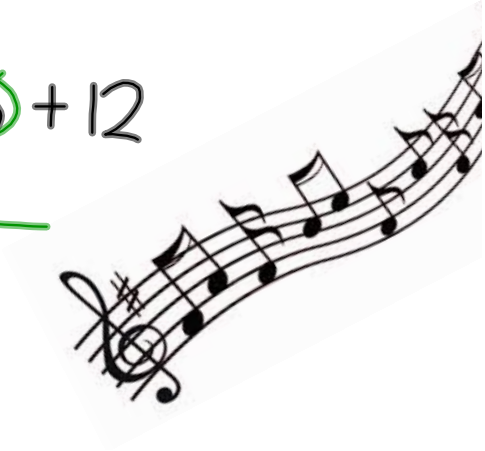
$0.95s = 0.89s + 12$

$-0.89s \quad -0.89s$

$.06s = 12$

$.06 \quad .06$

$s = 200$



Tim is choosing between two cell phone plans that offer the same amount of free minutes. At&t plan charges $39.99 per month with additional minutes costing $0.45. Verizon's plan costs $44.99 with additional minutes at $0.40. How many additional minutes, *m*, will it take for the two plans to cost the same?

a) Write an expression for AT&T

$39.99 + .45m$

b) Write an expression for verizon

$49.99 + .40m$

c) How many additional minutes, *m*, will it take for the two plans to cost the same?

$39.99 + .45m = 49.99 + .40m$

$-.40m \qquad -.40m$

$39.99 + .05m = 49.99$

$-39.99 \qquad -39.99$

$\frac{.05m}{.05} = \frac{10}{.05}$

$m =$