Solving Rates and Ratios Problems Several Ways



1. You want to purchase songs from a song download site. The site offers 5 songs for \$6. Find the price you would need to pay for 15 songs.

Method #1: One-Step Equivalent Ratio

Method #2: Two-Step Equivalent Ratio (Find the Unit Price First)

Method 3: Set up Equivalent Ratios and Cross Multiply

Consider the Example:

2. You want to purchase songs from a song download site. The site offers 5 songs for \$6. Find the number of songs you can buy for \$50.

**Method #2: Two-Step Equivalent Ratio (Find the Unit Price First)

Method 3: Set up Equivalent Ratios and Cross Multiply

Got It?

$$\frac{14}{x} = \frac{8}{9}$$

$$\frac{3.5}{7} = \frac{6.15}{x}$$

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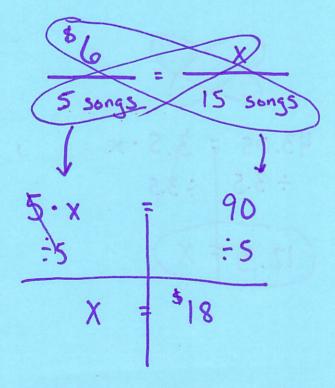
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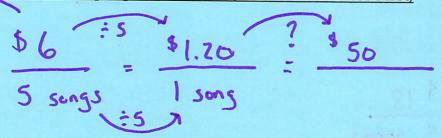
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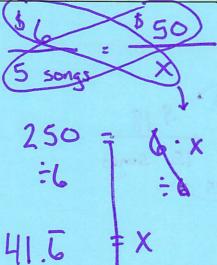
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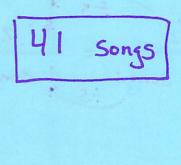
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**Method #2: Two-Step Equivalent Ratio (Find the Unit Price First)



Method 3: Set up Equivalent Ratios and Cross Multiply





Got It?

1.
$$\frac{14}{x} = \frac{8}{9}$$

8 x = 126

2 ÷ 8

15.75