

6.8 Solving Ratio and Proportion Word Problems

Chapter 6: Ratios, Rates, and Proportional Reasoning

Name: _____

Date: _____

Class/Period: _____

Problem 6.115 Five consonants occur for every 4 vowels. Find vowels when there are 40 consonants.

Problem 6.118 A ratio 7 : 6 has second quantity 84. Find the first.

Problem 6.116 A hoof has width:height = 3 : 8. Find the width when height is 5 inches.

Problem 6.119 A test has correct:incorrect = 11 : 3. Find incorrect when correct is 66.

Problem 6.117 A paint mix uses blue:yellow = 2 : 3. Find the amount of blue paint needed for $\frac{1}{4}$ pint of yellow paint.

Problem 6.120 Two numbers have ratio 4 : 9 and sum 78. Find them.

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Problem 6.121 Two numbers have ratio $7 : 3$ and difference 44. Find them.

Problem 6.124 A drink is red:yellow = $3 : 4$. Find yellow when red is 18 drops.

Problem 6.122 A class has girls:boys = $5 : 3$ and total 400. Find boys.

Problem 6.125 A student raises \$210 by selling 84 bars. How many bars for \$70?

Problem 6.123 Three of every 20 visitors get a ticket. How many of 100 visitors?

Problem 6.126 A reader completes 200 pages in 240 minutes. Find time for 25 pages.

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Problem 6.127 A group has 56 boys and 72 girls. A smaller group keeps the same ratio and contains 7 boys. How many girls?

Problem 6.129 A pirate has 32 gold and 64 silver coins. After spending 8 gold coins and some silver coins, the ratio is unchanged. Find the silver coins spent.

Problem 6.128 A pen has 18 pigs and 24 goats. Nine pigs and some goats enter without changing the ratio. How many goats enter?

Problem 6.130 A rectangle has width:height = 5 : 2 and perimeter 210 inches. Find its area.