6.3 Finding Parts and Wholes from Ratios

Chapter 6: Ratios, Rates, and Proportional Reasoning

Name: _____ Date: _____ Class/Period: _____

Problem 6.33 If $A : B = 2 : 7$ and $A = 10$, find B.

Problem 6.34 If $A : B = 8 : 3$ and $B = 18$, find A.

Problem 6.35 If red:blue $= 5 : 4$ and total $= 63$, find red.

Problem 6.36 If cats:dogs $= 3 : 7$ and total $= 80$, find dogs.

Problem 6.37 If wins:losses $= 4 : 1$ and wins exceed losses by 27, find both.

Problem 6.38 If $A : B = 11 : 6$ and $A - B = 35$, find $A + B$.

6.3 Finding Parts and Wholes from Ratios

Chapter 6: Ratios, Rates, and Proportional Reasoning

Problem 6.39 If $A : B : C = 2 : 3 : 5$ and total $= 70$, find C.

Problem 6.40 If $A : B : C = 4 : 1 : 3$ and $B = 7$, find the total.

Problem 6.41 A recipe uses flour:sugar $= 7 : 2$. Find sugar when flour is 42 cups.

Problem 6.42 A team has defenders:strikers $= 3 : 5$. Find defenders among 96 players.

Problem 6.43 Find k if $5k + 8k = 91$.

Problem 6.44 Explain what k means in $A = 4k, B = 9k$.

Problem 6.45 A necklace must use white:black beads $= 3 : 7$. The designer has 40 white and 90 black beads. Find the greatest number of each color that can be used.

Problem 6.46 A rectangle has width:height $= 5 : 2$ and perimeter 84. Find its dimensions and area.

Problem 6.47 Two numbers have ratio $7 : 11$ and sum 162. Find the numbers.

Problem 6.48 A survey has yes:no:undecided $= 8 : 5 : 2$. If 21 more people said yes than no, find the total surveyed.