

6.1 Ratio Language and Models

Chapter 6: Ratios, Rates, and Proportional Reasoning

Name: _____

Date: _____

Class/Period: _____

Problem 6.1 Write 12 : 18 in simplest form.

Problem 6.4 A box has 3 red and 8 blue markers.
Write red:total.

Problem 6.2 Write the ratio of 7 cats to 4 dogs.

Problem 6.5 A team has 11 wins and 4 losses. Write
losses:wins.

Problem 6.3 Reverse the ratio 5 : 9.

Problem 6.6 Write a to b using ratio notation.

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Problem 6.7 Write $14 : 21$ as a fraction in simplest form.

Problem 6.10 If boys:girls is $7 : 6$, what fraction of the students are girls?

Problem 6.8 A bag has 5 green, 7 yellow, and 8 black tiles. Write green:yellow:black.

Problem 6.11 Explain why $2 : 3 \neq 3 : 2$.

Problem 6.9 If apples:oranges is $2 : 5$, what fraction of the fruit are apples?

Problem 6.12 Create a collection whose shaded:unshaded ratio is $3 : 4$.

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Problem 6.13 A student says a red-to-blue ratio of $3 : 5$ means red objects are $\frac{3}{5}$ of all objects. Correct the statement.

Problem 6.15 The ratio of triangles to squares is $5 : 3$. Describe two different collections that have this ratio.

Problem 6.14 A jar has 18 coins worth at least 10 cents and 22 coins worth less than 10 cents. Find the ratio of coins worth at least 10 cents to all coins.

Problem 6.16 A class has 12 students wearing sneakers, 8 wearing boots, and 4 wearing sandals. Write three different meaningful ratios and label each one.