

Grade 6 - Ratios and Ratio Language - Worksheet

Common Core 6.RP.A.1 · maths-pdf.fr/en/

Name: _____ Class: _____ Date: ____/____/____

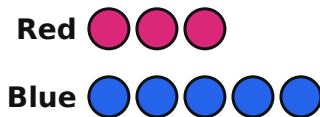
This **ratios practice worksheet** for 6th Grade covers ratios and ratio language (Common Core 6.RP.A.1), with a free PDF to print.

These 20 problems practice ratios and ratio language (Common Core 6.RP.A.1). Start by writing ratios in three ways and simplifying them. Then find equivalent ratios and use tape diagrams to solve word problems about recipes, sports, and school life.

Grade 6 · Common Core State Standards: **6.RP.A.1**

Ratios practice worksheet: exercises 1 to 10

Exercise 1 - Write a ratio



Red tiles and blue tiles.

Write the ratio of red tiles to blue tiles in three ways.

Exercise 2 - Three ways to write it

Maya has 4 cats and 7 dogs on her street. Write the ratio of cats to dogs using a colon, the word "to," and a fraction.

Exercise 3 - Part to whole

A class has 12 students and 5 of them are boys. Write the ratio of boys to all students.

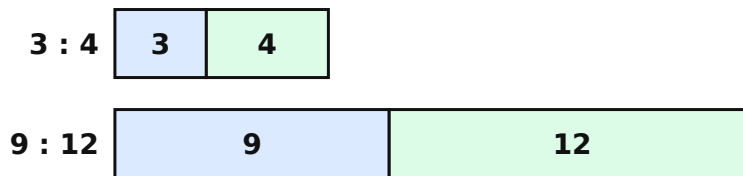
Exercise 4 - Order matters

A choir has 9 girls and 6 boys. Write (a) the ratio of girls to boys and (b) the ratio of boys to girls.

Exercise 5 - Simplify a ratio

Write 12:18 in simplest form.

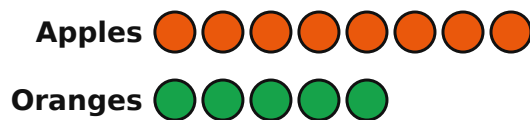
Exercise 6 - Complete the equivalent ratio



Both bars show the same comparison.

Find the missing number: $3:4 = 9:? .$

Exercise 7 - Fruit bowl



Fruit in a bowl.

Write the ratio of apples to all the fruit.

Exercise 8 - Basketball shots

Jamal made 9 free throws and missed 6. Write the ratio of shots made to shots missed in simplest form.

Exercise 9 - Simplify with larger numbers

Write the ratio 24 to 36 in simplest form.

Exercise 10 - Same units

Write the ratio of 45 minutes to 1 hour in simplest form. Use the same unit for both.

Exercises 11 and up

Exercise 11 - Three equivalent ratios

Write three ratios equivalent to $3:7 .$

Exercise 12 - Shapes in a quilt

Triangles 

Squares 

Pieces in a quilt design.

Write the ratio of triangles to squares in simplest form.

Exercise 13 - Are they equivalent?

Decide whether 6:9 and 8:12 are equivalent ratios. Explain.

Exercise 14 - Not equivalent

Decide whether 4:6 and 6:10 are equivalent ratios. Explain.

Exercise 15 - Trail mix

A trail mix uses 3 cups of peanuts for every 2 cups of raisins. How many cups of raisins go with 12 cups of peanuts?

Exercise 16 - Mixing paint

Red	3	3	3
White	5	5	5

Red paint to white paint is 3 to 5.

Paint for the school play is mixed with red and white in the ratio 3 to 5. Ethan uses 15 cups of white paint. Find the number of cups of red paint.

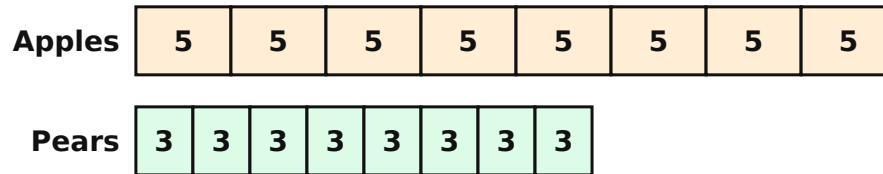
Exercise 17 - Little League record

A Little League team has a win-to-loss ratio of 3 to 2. The team played 20 games and had no ties. Find the number of wins.

Exercise 18 - Class ratio

In Aisha's homeroom the ratio of boys to girls is 4 to 5. There are 27 students in all. Find the number of boys and the number of girls.

Exercise 19 - Farmers market



Apples to pears is 5 to 3.

At the farmers market, Priya sold apples and pears in the ratio 5 to 3. She sold 64 pieces of fruit in all. Find how many apples and how many pears she sold.

Exercise 20 - Which lemonade is stronger?

Lemonade A uses 3 cups of lemon juice and 6 cups of water. Lemonade B uses 4 cups of lemon juice and 12 cups of water. Decide which lemonade has the stronger lemon taste. Explain.

Key facts behind this ratios practice worksheet

Key facts

- A ratio compares two quantities and can be written $a:b$, a to b , or a/b .
- Order matters: the first number matches the first quantity named.
- Ratios can compare part to part or part to whole.
- Multiply or divide both numbers by the same nonzero number to make equivalent ratios.
- A tape diagram splits a total into equal parts to solve ratio problems.

How to use this ratios practice worksheet

Work through the exercises in order: they go from simple to challenging. Write every step on paper, then compare with the solutions page and redo any exercise you missed the next day.

Download the ratios practice worksheet as a PDF with the button below and keep it with your notes.