

5.2 Exercises



Vocabulary and Concept Check

1. **VOCABULARY** How can you tell whether two ratios are equivalent?

2. **NUMBER SENSE** Consider the ratio 3 : 5. Can you create an equivalent ratio by adding the same number to each quantity in the ratio? Explain.

3. **WHICH ONE DOESN'T BELONG?** Which ratio does *not* belong with the other three? Explain your reasoning.

3 : 4

9 : 12

12 : 15

12 : 16

Find the missing value(s) in the ratio table. Then write the equivalent ratios.

10.

Towels	14	7	
Blankets	8		16

12. **WORK** Your neighbor pays you \$17 for every 2 hours you work. You work for 8 hours on Saturday. How much does your neighbor owe you?

Complete the ratio table to solve the problem.

14. A store sells 2 printers for every 5 computers. The store sells 40 computers. How many printers does the store sell?


Printers	2		8	
Computers	5	10		40

16. A grade has 81 girls and 72 boys. The grade is split into groups that have the same ratio of girls to boys as the whole grade. How many girls are in a group that has 16 boys?

Girls	81		
Boys	72		16

ERROR ANALYSIS Describe and correct the error in making the ratio table.

18.

	A	5	25	125
	B	3	9	27

Two whole numbers A and B satisfy the following conditions. Find A and B .

26. $A + B = 30$

$A : B$ is equivalent to $2 : 3$.

28. $A - B = 18$

$A : B$ is equivalent to $11 : 5$.

Nutrition Facts	
Serving Size: 1 ounce (28g)	
Amount Per Serving	
Calories 161	Calories from Fat 109
% Daily Value*	
Total Fat 13g	20%
Saturated Fat 3g	13%
Trans Fat	
Cholesterol 0mg	0%
Sodium 4mg	0%
Total Carbohydrate 9g	3%
Dietary Fiber 1g	3%
Sugars 1g	
Protein 4g	
Vitamin A 0%	Vitamin C 0%
Calcium 1%	Iron 9%

*Percent Daily Values are based on a 2,000 calorie diet. Your daily values may be higher or lower depending on your calorie needs.

30. **CASHEWS** The nutrition facts label on a container of dry roasted cashews indicates there are 161 calories in 28 grams. You eat 9 cashews totaling 12 grams.
- How many calories do you consume?
 - How many cashews are in one serving?
32. **SURVEY** Seven out of every 8 students surveyed owns a bike. The difference between the number of students who own a bike and those who do not is 72. How many students were surveyed? _____

