

7th Grade Chapter 1 Review

Name: _____ Per. _____

1. A recipe has 2 cups of sugar and 5 cups of flour. What is the ratio of cups of sugar to the total cups of ingredients in three ways?

2. A teacher at a school compared the number of girls to total number of students in three of her class periods. The ratios for the three classes were equivalent. Complete the table.

| Period | Girls | Total |
|--------|-------|-------|
| 1 | 5 | 9 |
| 2 | | 27 |
| 3 | 25 | |

3. You spend 20 minutes texting your friends. Then you spend an hour doing homework. Write the ratio of the amount of time spent texting your friends to the time spend doing homework as a fraction in simplest form.
4. The ratio of dogs to cats at a pet store is 4 : 5. If there are 20 cats, how many dogs are in the pet store?
5. Write the ratio as a fraction in simplest form. 10 feet to 5 yards.
6. An airplane takes 6 hours to travel 4,314 kilometers. What is the unit rate for kilometers per hour?
7. A package of 5 hair bows for girls cost \$30.95. What is the unit price per hair bow?
8. You want to buy a jar of peanut butter. A 9-ounce jar costs \$3.15. A 14-ounce jar costs \$5.04. A 22-ounce jar costs \$7.96. Which jar is the better buy?
9. A store sells 4 packages of cookies for \$11. How much would it cost to buy 9 packages of cookies?
10. A restaurant owner buys 8 plates to replace some broken ones. The 8 plates cost \$17.20. Unfortunately the owner breaks 3 more plates and needs to replace them. What is the cost of 3 more plates?
11. Write the ratio $\frac{2}{7}$ to 4 as a fraction in simplest form.

12. You mix $1\frac{1}{2}$ quarts of 7-up with $3\frac{3}{4}$ quarts of fruit punch to make a drink. What is the ratio of the amount of 7-up to the amount of fruit punch as a fraction in simplest form?

13. A model of a statue is $2\frac{1}{2}$ inches tall. The actual statue is $3\frac{1}{3}$ feet tall. What is the ratio of the height of the model to the actual height of the statue?

14. A stack of 8 books weighs $\frac{7}{8}$ pounds. What is the unit rate of books per pound?

15. Write this rate as a unit rate. $\frac{\frac{1}{8} \text{ mile}}{\frac{1}{32} \text{ day}}$

16. Yesterday, your family drove $35\frac{1}{2}$ miles and used $1\frac{1}{4}$ gallons of gas. What is the unit rate for miles per gallon?

17. You are running a fuel economy study. The Honda CRV can travel $38\frac{1}{2}$ miles on $1\frac{1}{4}$ gallons of gas. A Ford Escape can travel $27\frac{1}{5}$ miles on $\frac{4}{5}$ gallons of gas. What is the unit rate for miles per gallon for each car? Which car could travel the greatest distance on 1 gallon of gas?

Honda:

Ford:

Furthest on a gal. of gas:

18. A box of cereal states that there are 78 calories in a $\frac{3}{4}$ cup serving. What is the unit rate per cup?

a. How many calories are there in 2 cups?