

Homework 1.3 Rates & Ratios

Solve the problem with the best answer.

1. For every 5 boys on a softball team there is 1 girl. What is the ratio of boys to girls?

2. At the store for every 2 movies sold there were 8 books sold. What is the ratio of books sold to movies sold?

3. Mr. Lee had 21 red pens. If the ratio of red pens to blue pens he owned was 3:1, how many pens did he have total?

4. Javontae, a chess player, played 20 games total. If he won 2 of the games, what is the ratio of games he lost to games he won?

5. At a restaurant the ratio of kids meals sold to adult meals sold was 5:4. If there were 20 kids meals sold, what is the combined amount of kids and adult meals sold?

6. A buffet offers ranch or caesar dressing. The ratio of ranch dressing used to caesar dressing used is 8:3. If the buffet uses 72 cases of ranch dressing, how many cases of caesar do they use?

7. A recipe called for the ratio of sugar to flour to be 5:1. If you used 35 ounce of sugar, how many ounces of flour would you need to use?

8. At a farm the ratio of cows to horses was 10:3. If there were 20 cows at the farm, how many horses were there?

9. We paid \$40 for 8 hamburgers, which is a rate of \$___ per hamburger.

10. A pencil company used 60 grams of rubber to make 10 pencils, which is a rate of ___ grams per pencil.

11. For every 4 miles Maria jogged, Fernando jogged 3 miles. If Maria jogged 1 miles, how far would Fernando have jogged?

12. Luke spent 8 days collecting cans and he managed to collect 6 pounds. He collected ___ of a pound each day.

13. Every dollar is 10 dimes. This can be expressed using the equation $y \times 10 = Z$, where y is equal to the number of dollars and Z is equal to the total number of dimes. Using this equation find the total dimes in 7 dollars.

Reduce the Ratio to its simplest form.

14) 12:32

15) 80:8

16) 45:20

17) 8:40

18) 15:24

What is the ratio of moons to circles?



What is the ratio of triangles to stars?



1.3 Answers

1 3 boys:1 girls 2 4 books sold:1 movie sold 3 28 total 4 2 lost games:18 won games
5 36 meals sold 6 7 caesar 7 7 flour 8 6 hours 9 \$5 10 6 grams 11 $\frac{3}{4}$ miles or .75 miles
12 $1.\overline{33}$ pounds 13 700 dimes 14 $\frac{3}{8}$ 15 $\frac{10}{1}$ 16 $\frac{9}{4}$ 17 $\frac{1}{5}$ 18 $\frac{5}{8}$ 19 $\frac{15\text{moons}}{6\text{circles}}$ 20 $\frac{12\text{triangles}}{8\text{stars}}$