



* Pay Attention to what the question asks for!

Finding Ratios - Mix (Word)

Name: _____

Determine the best answer for each question. Write any ratios in their lowest form.

Answers

- 1) During a period of 104 minutes, a music station played 32 minutes of commercials. What is the ratio of music they played to commercials they played?

$$\begin{array}{r} 104 \text{ total min} \\ - 32 \text{ min commercials} \\ \hline 72 \text{ min music} \end{array}$$

$$\frac{72 \text{ music played} \div 8}{32 \text{ commercials played} \div 8} = \frac{9}{4}$$

$$\frac{9 \text{ music played}}{4 \text{ commercials played}}$$

1. _____
2. _____

- 2) During Christmas a book store sold 18 books. If the ratio of books to bookmarks sold was 2 : 7, how many bookmarks did the store sell?

$$\frac{2 \text{ books} \times 9}{7 \text{ bookmarks} \times 9} = \frac{18 \text{ books}}{63 \text{ bookmarks}}$$

They sold 63 bookmarks!

3. _____
4. _____

- 3) A parking lot has 7 empty space. If the ratio of empty spaces to taken spaces is 1 : 9, how many spaces are there total?

$$\frac{1 \text{ empty} \times 7}{9 \text{ taken} \times 7} = \frac{7 \text{ empty}}{63 \text{ taken}}$$

$$7 + 63 = 70 \text{ total spaces}$$

5. _____
6. _____

- 4) A small school has 24 students. If 8 of the students are boys, what is the ratio of girls to boys?

$$\begin{array}{r} 24 \text{ total students} \\ - 8 \text{ boys} \\ \hline 16 \text{ girls} \end{array}$$

$$\frac{16 \text{ girls} \div 8}{8 \text{ boys} \div 8} = \frac{2 \text{ girls}}{1 \text{ boy}}$$

7. _____
8. _____

- 5) Paul spent 32 minutes completing a marathon. He walked 14 minutes and jogged the rest. What is the ratio of time he jogged to time he walked?

$$\begin{array}{r} 32 \text{ total minutes} \\ - 14 \text{ minutes walking} \\ \hline 18 \text{ minutes jogging} \end{array}$$

$$\frac{18 \text{ jogged} \div 2}{14 \text{ walked} \div 2} = \frac{9 \text{ jogged}}{7 \text{ walked}}$$

9. _____
10. _____

- 6) Bobby deleted 45 songs from his MP3 player. If the ratio of songs he deleted to songs he kept was 9 : 10, how many songs did he originally have on his MP3 player?

$$\frac{9 \text{ deleted songs} \times 5}{10 \text{ kept songs} \times 5} = \frac{45 \text{ deleted}}{50 \text{ kept}}$$

$$45 \text{ deleted} + 50 \text{ kept} = 95 \text{ originally had}$$

- 7) A teacher had 70 red pens. If the ratio of red pens to blue pens she owned was 7 : 8, how many pens did she have total?

$$\frac{7 \text{ red pens} \times 10}{8 \text{ blue pens} \times 10} = \frac{70 \text{ red pens}}{80 \text{ blue pens}}$$

$$70 \text{ red pens} + 80 \text{ blue pens} = 150 \text{ total pens}$$

- 8) The ratio of white chocolate to dark chocolate sold at a candy shop was 4 : 7. If there were 36 bars of white chocolate sold, how many bars of dark chocolate were sold?

$$\frac{4 \text{ white} \times 9}{7 \text{ dark} \times 9} = \frac{36 \text{ white}}{63 \text{ dark}}$$

63 dark chocolate bars were sold

- 9) A restaurant offers diet soda and regular soda. In one day they sold 16 diet sodas. If the ratio of diet sodas sold to regular sodas sold was 2 : 5, how many sodas were sold total?

$$\frac{2 \text{ diet} \times 8}{5 \text{ regular} \times 8} = \frac{16 \text{ diet}}{40 \text{ regular}}$$

$$16 \text{ diet sodas} + 40 \text{ regular sodas} = 56 \text{ total sodas were sold}$$

- 10) At a restaurant the ratio of kids meals sold to adult meals sold was 3 : 8. If there were 21 kids meals sold, how many adult meals were sold?

$$\frac{3 \text{ kids meals} \times 7}{8 \text{ adult meals} \times 7} = \frac{21 \text{ kids meals}}{56 \text{ adult meals}}$$

56 adult meals were sold



Determine the best answer for each question. Write any ratios in their lowest form.

Answers

- 1) A classroom had 24 glue sticks. If the ratio of glue sticks to glue bottles was 3 : 10, how many glue bottles did the classroom have?
- 2) During a period of 18 minutes, a music station played 8 minutes of commercials. What is the ratio of music they played to commercials they played?
- 3) A parking lot has 30 spaces total. If 6 of the spaces have cars in them, what is the ratio of empty spaces to filled spaces?
- 4) At a book fair there were 4 fiction books sold. If the ratio of fiction books sold to non-fiction book sold was 1 : 2, how many books were sold total?
- 5) At an ice cream shop the ratio of sugar cones sold to waffle cones sold is 9 : 10. If there are 27 sugar cones sold, how many waffles cones would be sold?
- 6) A chess player won 12 of the games he played. If his ratio of wins to loses was 2 : 7, how many games did he play total?
- 7) Victor deleted 8 songs from his MP3 player. If the ratio of songs he deleted to songs he kept was 1 : 6, how many songs did he originally have on his MP3 player?
- 8) At a bake sale there were 7 raisin cookies sold. If the ratio of raisin cookies sold to oatmeal cookies sold was 1 : 7, what is the combined amount of raisin and oatmeal cookies sold?
- 9) At the carnival, the ratio of people who won the ring toss game to lost it was 7 : 10. If 14 people won, how many people would have lost?
- 10) Vince had 68 dollars. If he spent 32 dollars on new books, what is the ratio of money he still has to money he's spent?

1.	_____
2.	_____
3.	_____
4.	_____
5.	_____
6.	_____
7.	_____
8.	_____
9.	_____
10.	_____