

**Ratios Review****Creating Equivalent Ratios**

Fill in the blank to make an equivalent ratio.

1)  $72 : 64 = 9 : \underline{\quad}$

2)  $2 : 6 = 14 : \underline{\quad}$

3)  $\underline{\quad} : 7 = 8 : 14$

4)  $32 : \underline{\quad} = 12 : 24$

5)  $\underline{\quad} : 12 = 7 : 14$

6)  $30 : 36 = 5 : \underline{\quad}$

7)  $\underline{\quad} : 6 = 4 : 3$

8)  $1 : 2 = \underline{\quad} : 4$

9)  $4 : 2 = 20 : \underline{\quad}$

10)  $6 : \underline{\quad} = 12 : 18$

11)  $63 : \underline{\quad} = 7 : 2$

12)  $\underline{\quad} : 5 = 18 : 30$

13)  $18 : 27 = 16 : \underline{\quad}$

14)  $6 : \underline{\quad} = 9 : 12$

15)  $15 : 3 = \underline{\quad} : 1$

16)  $\underline{\quad} : 4 = 30 : 24$

17)  $\underline{\quad} : 14 = 1 : 2$

18)  $6 : \underline{\quad} = 54 : 27$



## Understanding Ratios

Solve each problem.

- 1) 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?
- 2) A teacher had 21 red pens. If the ratio of red pens to blue pens she owned was 3 : 1, how many pens did she have total?
- 3) 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?
- 4) At a pet store the ratio of cats to dogs sold was 10 : 1. If there were 60 cats that were sold, how many dogs were sold?
- 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 student bought 34 pencils for school. If he sharpened 16 of the pencils before school, what is his ratio of unsharpened pencils to sharpened pencils?
- 7) 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?
- 8) A student finished 72 of her homework problems in class. If the ratio of problems she finished to problems she still had left was 8 : 1, how many homework problems did she have total?
- 9) At a carnival Cody bought 15 tickets. If he used 6 tickets trying to win the ring toss game, what is the ratio of tickets he has to tickets he's used?
- 10) 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?



## Reducing Ratios

Reduce each ratio to its lowest form.

Ex)  $50 : 35 = \frac{10}{7}$

1)  $49 : 21 = \underline{\hspace{2cm}}$

2)  $42 : 54 = \underline{\hspace{2cm}}$

3)  $12 : 32 = \underline{\hspace{2cm}}$

4)  $45 : 20 = \underline{\hspace{2cm}}$

5)  $15 : 24 = \underline{\hspace{2cm}}$

6)  $12 : 8 = \underline{\hspace{2cm}}$

7)  $2 : 16 = \underline{\hspace{2cm}}$

8)  $35 : 28 = \underline{\hspace{2cm}}$

9)  $20 : 36 = \underline{\hspace{2cm}}$

10)  $14 : 63 = \underline{\hspace{2cm}}$

11)  $27 : 36 = \underline{\hspace{2cm}}$

12)  $70 : 10 = \underline{\hspace{2cm}}$

13)  $10 : 60 = \underline{\hspace{2cm}}$

14)  $42 : 30 = \underline{\hspace{2cm}}$

15)  $48 : 42 = \underline{\hspace{2cm}}$

16)  $90 : 10 = \underline{\hspace{2cm}}$

17)  $9 : 18 = \underline{\hspace{2cm}}$

18)  $5 : 20 = \underline{\hspace{2cm}}$

19)  $64 : 72 = \underline{\hspace{2cm}}$

20)  $42 : 12 = \underline{\hspace{2cm}}$



## Using Rate Language

Solve each problem.

- 1) We paid \$40 for 8 hamburgers, which is a rate of \$ \_\_\_ per hamburger.
- 2) A pencil company used 60 grams of rubber to make 10 pencils, which is a rate of \_\_\_ grams per pencil.
- 3) An industrial machine is able to make 9 pens in 3 seconds. What is the rate made per second?
- 4) It took a pet store 10 weeks to sell 80 cats. What is the rate sold per week?
- 5) For every 4 miles Vanessa jogged, Cody jogged 3 miles. If Vanessa jogged 1 miles, how far would Cody have jogged?
- 6) A tailor used 2 meters of string to make 10 Halloween masks. He used \_\_\_ of a meter for each mask.
- 7) A machine worked for 5 hours and used 4 kilowatts of electricity. The machine used \_\_\_ of a kilowatt each hour it worked.
- 8) A candy company used 8 gallons of syrup to make 4 batches of candy. What is the rate of syrup per batch?
- 9) Oliver earned \$12 for mowing 3 lawns. What is the rate earned per lawn mowed?
- 10) A baker used 4 cups of flour to make 5 batches of brownies. He used \_\_\_ of a cup of flour to make 1 batch of brownies.
- 11) A computer programmer worked for 10 hours and earned \$70, which is a rate of \$ \_\_\_ per hour.
- 12) A scientist used 2 gallons of liquid for every 3 hours he works. He uses \_\_\_ of a gallon each hour he works.
- 13) A fair owner made 18 dollars when a group of 3 people entered, which is a rate of \_\_\_ dollar per person.
- 14) Luke spent 8 days collecting cans and he managed to collect 6 pounds. He collected \_\_\_ of a pound each day.
- 15) A jogger travelled 50 kilometers in 5 days. What is the rate he travelled per day?