Solve each problem.

1) A classroom had 35 glue sticks. If the ratio of glue sticks to glue bottles was 5 : 2, how many glue bottles did the classroom have?

1. _____

2. _____

2) A student finished 8 of her homework problems in class. If the ratio of problems she finished to problems she still had left was 4 : 1, how many homework problems did she have total?

3. _____

4. _____

3) On a Saturday, a library checked out 52 books. If 24 of the books were fiction, what is the ratio of non-fiction books to fiction books checked out?

5. _____

6. _____

4) A recipe called for the ratio of sugar to flour to be 10 : 3. If you used 70 ounce of sugar, how many ounces of flour would you need to use?

7. _____

8. _____

5) At a bake sale there were 72 raisin cookies sold. If the ratio of raisin cookies sold to oatmeal cookies sold was 9 : 1, what is the combined amount of raisin and oatmeal cookies sold?

9. _____

10. _____

6) Kaleb had 136 songs on his MP3 player. If he deleted 56 songs, what is the ratio of songs he kept to songs he deleted?

7) The ratio of red cars to blue cars in a parking lot was 5 : 3. If there were 40 red cars, how many blue cars were there?

8) A produce store sold 63 red apples. If the ratio of red apples to green apples sold was 7 : 2, what is the combined amount of red and green apples sold?

9) For homework, a student had to complete 15 problems total. If she finished 6 problems in class, what is the ratio of problems she still needs to complete to problems that she's already finished?

10) At a farm the ratio of cows to horses was 9 : 2. If there were 72 cows at the farm, how many horses were there?

Solve each problem.

1) A classroom had 35 glue sticks. If the ratio of glue sticks to glue bottles was 5 : 2, how many glue bottles did the classroom have?

2) A student finished 8 of her homework problems in class. If the ratio of problems she finished to problems she still had left was 4 : 1, how many homework problems did she have total?

3) On a Saturday, a library checked out 52 books. If 24 of the books were fiction, what is the ratio of non-fiction books to fiction books checked out?

4) A recipe called for the ratio of sugar to flour to be 10 : 3. If you used 70 ounce of sugar, how many ounces of flour would you need to use?

5) At a bake sale there were 72 raisin cookies sold. If the ratio of raisin cookies sold to oatmeal cookies sold was 9 : 1, what is the combined amount of raisin and oatmeal cookies sold?

6) Kaleb had 136 songs on his MP3 player. If he deleted 56 songs, what is the ratio of songs he kept to songs he deleted?

7) The ratio of red cars to blue cars in a parking lot was 5 : 3. If there were 40 red cars, how many blue cars were there?

8) A produce store sold 63 red apples. If the ratio of red apples to green apples sold was 7 : 2, what is the combined amount of red and green apples sold?

9) For homework, a student had to complete 15 problems total. If she finished 6 problems in class, what is the ratio of problems she still needs to complete to problems that she's already finished?

10) At a farm the ratio of cows to horses was 9 : 2. If there were 72 cows at the farm, how many horses were there?

	Answers
1.	**14**
2.	**10**
3.	**7 : 6**
4.	**21**
5.	**80**
6.	**10 : 7**
7.	**24**
8.	**81**
9.	**3 : 2**
10.	**16**

| 1-10 | 90 | 80 | 70 | 60 | 50 | 40 | 30 | 20 | 10 | 0 |

Solve each problem.

16	21	10 : 7	24	3 : 2
14	7 : 6	81	10	80

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

1) A classroom had 35 glue sticks. If the ratio of glue sticks to glue bottles was 5 : 2, how many glue bottles did the classroom have?

2) A student finished 8 of her homework problems in class. If the ratio of problems she finished to problems she still had left was 4 : 1, how many homework problems did she have total?

3) On a Saturday, a library checked out 52 books. If 24 of the books were fiction, what is the ratio of non-fiction books to fiction books checked out?

4) A recipe called for the ratio of sugar to flour to be 10 : 3. If you used 70 ounce of sugar, how many ounces of flour would you need to use?

5) At a bake sale there were 72 raisin cookies sold. If the ratio of raisin cookies sold to oatmeal cookies sold was 9 : 1, what is the combined amount of raisin and oatmeal cookies sold?

6) Kaleb had 136 songs on his MP3 player. If he deleted 56 songs, what is the ratio of songs he kept to songs he deleted?

7) The ratio of red cars to blue cars in a parking lot was 5 : 3. If there were 40 red cars, how many blue cars were there?

8) A produce store sold 63 red apples. If the ratio of red apples to green apples sold was 7 : 2, what is the combined amount of red and green apples sold?

9) For homework, a student had to complete 15 problems total. If she finished 6 problems in class, what is the ratio of problems she still needs to complete to problems that she's already finished?

10) At a farm the ratio of cows to horses was 9 : 2. If there were 72 cows at the farm, how many horses were there?

Solve each problem.

1) During Christmas a book store sold 72 books. If the ratio of books to bookmarks sold was 9 : 2, how many bookmarks did the store sell?

1. _____

2. _____

2) A fast food restaurant sold 35 burgers with cheese. If the ratio of burgers sold with cheese compared to without cheese was 7 : 3, how many burgers did they sell total?

3. _____

4. _____

3) Adam had 91 dollars. If he spent 21 dollars on new books, what is the ratio of money he still has to money he's spent?

5. _____

6. _____

4) At an ice cream shop the ratio of sugar cones sold to waffle cones sold is 6 : 5. If there are 42 sugar cones sold, how many waffles cones would be sold?

7. _____

8. _____

5) During a class election the ratio of students who voted for candidate A compared to candidate B was 2 : 1. If candidate A received 14 votes, what is the combined amount of votes candidate A and candidate B received?

9. _____

10. _____

6) For an art show, an artist painted 153 pictures. During the show he sold 72 of his pictures. What is the ratio of pictures he still has to pictures he sold?

7) At summer camp the ratio of boys to girls was 5 : 4. If there were 40 boys, how many girls were there?

8) While completing a race, Ned spent 63 minutes walking. If his ratio of time walking to jogging was 9 : 1, how many minutes did he spend completing the race?

9) Dave spent 21 minutes completing a race. He walked 9 minutes and jogged the rest. What is the ratio of time he jogged to time he walked?

10) Henry was playing checkers with a friend. The ratio of games Henry won was 9 : 4. If Henry won 36 games, how many games did his friend win?

Solve each problem.

1) During Christmas a book store sold 72 books. If the ratio of books to bookmarks sold was 9 : 2, how many bookmarks did the store sell?

2) A fast food restaurant sold 35 burgers with cheese. If the ratio of burgers sold with cheese compared to without cheese was 7 : 3, how many burgers did they sell total?

3) Adam had 91 dollars. If he spent 21 dollars on new books, what is the ratio of money he still has to money he's spent?

4) At an ice cream shop the ratio of sugar cones sold to waffle cones sold is 6 : 5. If there are 42 sugar cones sold, how many waffles cones would be sold?

5) During a class election the ratio of students who voted for candidate A compared to candidate B was 2 : 1. If candidate A received 14 votes, what is the combined amount of votes candidate A and candidate B received?

6) For an art show, an artist painted 153 pictures. During the show he sold 72 of his pictures. What is the ratio of pictures he still has to pictures he sold?

7) At summer camp the ratio of boys to girls was 5 : 4. If there were 40 boys, how many girls were there?

8) While completing a race, Ned spent 63 minutes walking. If his ratio of time walking to jogging was 9 : 1, how many minutes did he spend completing the race?

9) Dave spent 21 minutes completing a race. He walked 9 minutes and jogged the rest. What is the ratio of time he jogged to time he walked?

10) Henry was playing checkers with a friend. The ratio of games Henry won was 9 : 4. If Henry won 36 games, how many games did his friend win?

1.	**16**
2.	**50**
3.	**10 : 3**
4.	**35**
5.	**21**
6.	**9 : 8**
7.	**32**
8.	**70**
9.	**4 : 3**
10.	**16**

Name:

Solve each problem.

70	10 : 3	35	50	21
4 : 3	16	9 : 8	32	16

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

1) During Christmas a book store sold 72 books. If the ratio of books to bookmarks sold was 9 : 2, how many bookmarks did the store sell?

2) A fast food restaurant sold 35 burgers with cheese. If the ratio of burgers sold with cheese compared to without cheese was 7 : 3, how many burgers did they sell total?

3) Adam had 91 dollars. If he spent 21 dollars on new books, what is the ratio of money he still has to money he's spent?

4) At an ice cream shop the ratio of sugar cones sold to waffle cones sold is 6 : 5. If there are 42 sugar cones sold, how many waffles cones would be sold?

5) During a class election the ratio of students who voted for candidate A compared to candidate B was 2 : 1. If candidate A received 14 votes, what is the combined amount of votes candidate A and candidate B received?

6) For an art show, an artist painted 153 pictures. During the show he sold 72 of his pictures. What is the ratio of pictures he still has to pictures he sold?

7) At summer camp the ratio of boys to girls was 5 : 4. If there were 40 boys, how many girls were there?

8) While completing a race, Ned spent 63 minutes walking. If his ratio of time walking to jogging was 9 : 1, how many minutes did he spend completing the race?

9) Dave spent 21 minutes completing a race. He walked 9 minutes and jogged the rest. What is the ratio of time he jogged to time he walked?

10) Henry was playing checkers with a friend. The ratio of games Henry won was 9 : 4. If Henry won 36 games, how many games did his friend win?

1-10	90	80	70	60	50	40	30	20	10	0

Solve each problem.

1) At summer camp the ratio of boys to girls was 10 : 1. If there were 30 boys, how many girls were there?

1. _____

2. _____

2) A small school has 42 boys. If the ratio of boys to girls is 7 : 1, how many, students are there total?

3. _____

4. _____

3) A chess player played 44 games total. If he won 16 of the games, what is the ratio of games he lost to games he won?

5. _____

6. _____

4) In one day a movie store rented out 15 comedies. If the ratio of comedies rented to action movies rented was 3 : 1, how many action movies were rented?

7. _____

8. _____

5) A fast food restaurant sold 30 burgers with cheese. If the ratio of burgers sold with cheese compared to without cheese was 10 : 7, how many burgers did they sell total?

9. _____

10. _____

6) A small school has 78 students. If 24 of the students are boys, what is the ratio of girls to boys?

7) The ratio of white chocolate to dark chocolate sold at a candy shop was 4 : 3. If there were 20 bars of white chocolate sold, how many bars of dark chocolate were sold?

8) Kaleb deleted 20 songs from his MP3 player. If the ratio of songs he deleted to songs he kept was 10 : 3, how many songs did he originally have on his MP3 player?

9) A produce store offers red and green apples. In one morning they sold 85 apples total. If 40 of the apples they sold were red, what is the ratio of green apples sold to red apples sold?

10) Victor was playing checkers with a friend. The ratio of games Victor won was 9 : 5. If Victor won 36 games, how many games did his friend win?

Name:

Solve each problem.

Answers

1) At summer camp the ratio of boys to girls was 10 : 1. If there were 30 boys, how many girls were there?

2) A small school has 42 boys. If the ratio of boys to girls is 7 : 1, how many, students are there total?

3) A chess player played 44 games total. If he won 16 of the games, what is the ratio of games he lost to games he won?

4) In one day a movie store rented out 15 comedies. If the ratio of comedies rented to action movies rented was 3 : 1, how many action movies were rented?

5) A fast food restaurant sold 30 burgers with cheese. If the ratio of burgers sold with cheese compared to without cheese was 10 : 7, how many burgers did they sell total?

6) A small school has 78 students. If 24 of the students are boys, what is the ratio of girls to boys?

7) The ratio of white chocolate to dark chocolate sold at a candy shop was 4 : 3. If there were 20 bars of white chocolate sold, how many bars of dark chocolate were sold?

8) Kaleb deleted 20 songs from his MP3 player. If the ratio of songs he deleted to songs he kept was 10 : 3, how many songs did he originally have on his MP3 player?

9) A produce store offers red and green apples. In one morning they sold 85 apples total. If 40 of the apples they sold were red, what is the ratio of green apples sold to red apples sold?

10) Victor was playing checkers with a friend. The ratio of games Victor won was 9 : 5. If Victor won 36 games, how many games did his friend win?

1.	**3**
2.	**48**
3.	**7 : 4**
4.	**5**
5.	**51**
6.	**9 : 4**
7.	**15**
8.	**26**
9.	**9 : 8**
10.	**20**

1-10	90	80	70	60	50	40	30	20	10	0

Name:

Solve each problem.

7 : 4	48	20	51	3
5	9 : 8	15	26	9 : 4

1. _____

2. _____

3. _____

1) At summer camp the ratio of boys to girls was 10 : 1. If there were 30 boys, how many girls were there?

4. _____

2) A small school has 42 boys. If the ratio of boys to girls is 7 : 1, how many, students are there total?

5. _____

6. _____

3) A chess player played 44 games total. If he won 16 of the games, what is the ratio of games he lost to games he won?

7. _____

4) In one day a movie store rented out 15 comedies. If the ratio of comedies rented to action movies rented was 3 : 1, how many action movies were rented?

8. _____

9. _____

5) A fast food restaurant sold 30 burgers with cheese. If the ratio of burgers sold with cheese compared to without cheese was 10 : 7, how many burgers did they sell total?

10. _____

6) A small school has 78 students. If 24 of the students are boys, what is the ratio of girls to boys?

7) The ratio of white chocolate to dark chocolate sold at a candy shop was 4 : 3. If there were 20 bars of white chocolate sold, how many bars of dark chocolate were sold?

8) Kaleb deleted 20 songs from his MP3 player. If the ratio of songs he deleted to songs he kept was 10 : 3, how many songs did he originally have on his MP3 player?

9) A produce store offers red and green apples. In one morning they sold 85 apples total. If 40 of the apples they sold were red, what is the ratio of green apples sold to red apples sold?

10) Victor was playing checkers with a friend. The ratio of games Victor won was 9 : 5. If Victor won 36 games, how many games did his friend win?

1-10	90	80	70	60	50	40	30	20	10	0

Solve each problem.

1) The ratio of white chocolate to dark chocolate sold at a candy shop was 5 : 4. If there were 35 bars of white chocolate sold, how many bars of dark chocolate were sold?

1. _____

2. _____

2) A produce store sold 45 red apples. If the ratio of red apples to green apples sold was 5 : 2, what is the combined amount of red and green apples sold?

3. _____

4. _____

3) A fast food restaurant sells two sizes of fries, small and large. On Friday they sold 81 fries total. If 9 of the fries sold were small, what is the ratio of large fries sold to small fries sold?

5. _____

6. _____

4) At a pet store the ratio of cats to dogs sold was 2 : 1. If there were 16 cats that were sold, how many dogs were sold?

7. _____

8. _____

5) During a class election the ratio of students who voted for candidate A compared to candidate B was 7 : 4. If candidate A received 21 votes, what is the combined amount of votes candidate A and candidate B received?

9. _____

10. _____

6) A video game had 35 levels in it. If you beat 5 of the levels, what is the ratio of levels left to the levels that have been beaten?

7) Dave was playing checkers with a friend. The ratio of games Dave won was 7 : 2. If Dave won 35 games, how many games did his friend win?

8) A chess player won 72 of the games he played. If his ratio of wins to loses was 9 : 4, how many games did he play total?

9) A small school has 55 students. If 10 of the students are boys, what is the ratio of girls to boys?

10) A buffet offers ranch or caesar dressing. The ratio of ranch dressing used to caesar dressing used is 7 : 1. If the buffet uses 28 cases of ranch dressing, how many cases of caesar do they use?

Name:

Solve each problem.

Answers

1) The ratio of white chocolate to dark chocolate sold at a candy shop was 5 : 4. If there were 35 bars of white chocolate sold, how many bars of dark chocolate were sold?

2) A produce store sold 45 red apples. If the ratio of red apples to green apples sold was 5 : 2, what is the combined amount of red and green apples sold?

3) A fast food restaurant sells two sizes of fries, small and large. On Friday they sold 81 fries total. If 9 of the fries sold were small, what is the ratio of large fries sold to small fries sold?

4) At a pet store the ratio of cats to dogs sold was 2 : 1. If there were 16 cats that were sold, how many dogs were sold?

5) During a class election the ratio of students who voted for candidate A compared to candidate B was 7 : 4. If candidate A received 21 votes, what is the combined amount of votes candidate A and candidate B received?

6) A video game had 35 levels in it. If you beat 5 of the levels, what is the ratio of levels left to the levels that have been beaten?

7) Dave was playing checkers with a friend. The ratio of games Dave won was 7 : 2. If Dave won 35 games, how many games did his friend win?

8) A chess player won 72 of the games he played. If his ratio of wins to loses was 9 : 4, how many games did he play total?

9) A small school has 55 students. If 10 of the students are boys, what is the ratio of girls to boys?

10) A buffet offers ranch or caesar dressing. The ratio of ranch dressing used to caesar dressing used is 7 : 1. If the buffet uses 28 cases of ranch dressing, how many cases of caesar do they use?

#	Answer
1.	**28**
2.	**63**
3.	**8 : 1**
4.	**8**
5.	**33**
6.	**6 : 1**
7.	**10**
8.	**104**
9.	**9 : 2**
10.	**4**

1-10	90	80	70	60	50	40	30	20	10	0

Name:

Solve each problem.

10	4	8	33	104
28	6 : 1	63	8 : 1	9 : 2

1) The ratio of white chocolate to dark chocolate sold at a candy shop was 5 : 4. If there were 35 bars of white chocolate sold, how many bars of dark chocolate were sold?

2) A produce store sold 45 red apples. If the ratio of red apples to green apples sold was 5 : 2, what is the combined amount of red and green apples sold?

3) A fast food restaurant sells two sizes of fries, small and large. On Friday they sold 81 fries total. If 9 of the fries sold were small, what is the ratio of large fries sold to small fries sold?

4) At a pet store the ratio of cats to dogs sold was 2 : 1. If there were 16 cats that were sold, how many dogs were sold?

5) During a class election the ratio of students who voted for candidate A compared to candidate B was 7 : 4. If candidate A received 21 votes, what is the combined amount of votes candidate A and candidate B received?

6) A video game had 35 levels in it. If you beat 5 of the levels, what is the ratio of levels left to the levels that have been beaten?

7) Dave was playing checkers with a friend. The ratio of games Dave won was 7 : 2. If Dave won 35 games, how many games did his friend win?

8) A chess player won 72 of the games he played. If his ratio of wins to loses was 9 : 4, how many games did he play total?

9) A small school has 55 students. If 10 of the students are boys, what is the ratio of girls to boys?

10) A buffet offers ranch or caesar dressing. The ratio of ranch dressing used to caesar dressing used is 7 : 1. If the buffet uses 28 cases of ranch dressing, how many cases of caesar do they use?

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

Solve each problem.

1) A video uploaded had 18 'up votes'. If the ratio of 'up votes' to 'down votes' was 9 : 2, how many 'down votes' did the video get?

1. _____

2. _____

2) A pet store sold 35 siamese cats. If the ratio of siamese cats to house cats sold was 7 : 3, what is the combined amount of cats sold?

3. _____

4. _____

3) A chess player played 56 games total. If he won 20 of the games, what is the ratio of games he lost to games he won?

5. _____

6. _____

4) At a farm the ratio of cows to horses was 9 : 8. If there were 45 cows at the farm, how many horses were there?

7. _____

8. _____

5) A student finished 45 of her homework problems in class. If the ratio of problems she finished to problems she still had left was 9 : 4, how many homework problems did she have total?

9. _____

10. _____

6) A fast food restaurant sells two sizes of fries, small and large. On Friday they sold 24 fries total. If 4 of the fries sold were small, what is the ratio of large fries sold to small fries sold?

7) A recipe called for the ratio of sugar to flour to be 8 : 7. If you used 48 ounce of sugar, how many ounces of flour would you need to use?

8) A fast food restaurant sold 64 burgers with cheese. If the ratio of burgers sold with cheese compared to without cheese was 8 : 5, how many burgers did they sell total?

9) A parking lot has 27 spaces total. If 9 of the spaces have cars in them, what is the ratio of empty spaces to filled spaces?

10) During a race Gwen jogged for 15 minutes. If the ratio of time she jogged to time she walked was 5 : 3, how many minutes did Gwen walk?

Name: **Answer Key**

Solve each problem.

Answers

1) A video uploaded had 18 'up votes'. If the ratio of 'up votes' to 'down votes' was 9 : 2, how many 'down votes' did the video get?

1. _____**4**_____

2. _____**50**_____

2) A pet store sold 35 siamese cats. If the ratio of siamese cats to house cats sold was 7 : 3, what is the combined amount of cats sold?

3. _____**9 : 5**_____

4. _____**40**_____

3) A chess player played 56 games total. If he won 20 of the games, what is the ratio of games he lost to games he won?

5. _____**65**_____

6. _____**5 : 1**_____

4) At a farm the ratio of cows to horses was 9 : 8. If there were 45 cows at the farm, how many horses were there?

7. _____**42**_____

8. _____**104**_____

5) A student finished 45 of her homework problems in class. If the ratio of problems she finished to problems she still had left was 9 : 4, how many homework problems did she have total?

9. _____**2 : 1**_____

10. _____**9**_____

6) A fast food restaurant sells two sizes of fries, small and large. On Friday they sold 24 fries total. If 4 of the fries sold were small, what is the ratio of large fries sold to small fries sold?

7) A recipe called for the ratio of sugar to flour to be 8 : 7. If you used 48 ounce of sugar, how many ounces of flour would you need to use?

8) A fast food restaurant sold 64 burgers with cheese. If the ratio of burgers sold with cheese compared to without cheese was 8 : 5, how many burgers did they sell total?

9) A parking lot has 27 spaces total. If 9 of the spaces have cars in them, what is the ratio of empty spaces to filled spaces?

10) During a race Gwen jogged for 15 minutes. If the ratio of time she jogged to time she walked was 5 : 3, how many minutes did Gwen walk?

1-10 | 90 | 80 | 70 | 60 | 50 | 40 | 30 | 20 | 10 | 0

Understanding Ratios

Name:

Solve each problem.

4	2 : 1	50	5 : 1	42
40	9 : 5	65	9	104

1) A video uploaded had 18 'up votes'. If the ratio of 'up votes' to 'down votes' was 9 : 2, how many 'down votes' did the video get?

2) A pet store sold 35 siamese cats. If the ratio of siamese cats to house cats sold was 7 : 3, what is the combined amount of cats sold?

3) A chess player played 56 games total. If he won 20 of the games, what is the ratio of games he lost to games he won?

4) At a farm the ratio of cows to horses was 9 : 8. If there were 45 cows at the farm, how many horses were there?

5) A student finished 45 of her homework problems in class. If the ratio of problems she finished to problems she still had left was 9 : 4, how many homework problems did she have total?

6) A fast food restaurant sells two sizes of fries, small and large. On Friday they sold 24 fries total. If 4 of the fries sold were small, what is the ratio of large fries sold to small fries sold?

7) A recipe called for the ratio of sugar to flour to be 8 : 7. If you used 48 ounce of sugar, how many ounces of flour would you need to use?

8) A fast food restaurant sold 64 burgers with cheese. If the ratio of burgers sold with cheese compared to without cheese was 8 : 5, how many burgers did they sell total?

9) A parking lot has 27 spaces total. If 9 of the spaces have cars in them, what is the ratio of empty spaces to filled spaces?

10) During a race Gwen jogged for 15 minutes. If the ratio of time she jogged to time she walked was 5 : 3, how many minutes did Gwen walk?

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

1-10	90	80	70	60	50	40	30	20	10	0

Solve each problem.

1) A recipe called for the ratio of sugar to flour to be 7 : 3. If you used 63 ounce of sugar, how many ounces of flour would you need to use?

1. _____

2. _____

2) Edward had beaten 24 levels in a video game. If the ratio of levels he had beaten to not beaten was 3 : 1, how many levels does the game have total?

3. _____

4. _____

3) At a bake sale there were 52 items sold total. If 24 of the items sold were cookies and the rest were brownies what is the ratio of brownies sold to cookies sold?

5. _____

6. _____

4) At the carnival, the ratio of people who won the ring toss game to lost it was 8 : 5. If 24 people won, how many people would have lost?

7. _____

8. _____

5) At a bake sale there were 42 raisin cookies sold. If the ratio of raisin cookies sold to oatmeal cookies sold was 6 : 1, what is the combined amount of raisin and oatmeal cookies sold?

9. _____

10. _____

6) A parking lot has 117 spaces total. If 36 of the spaces have cars in them, what is the ratio of empty spaces to filled spaces?

7) A classroom had 63 glue sticks. If the ratio of glue sticks to glue bottles was 9 : 1, how many glue bottles did the classroom have?

8) A parking lot has 35 empty space. If the ratio of empty spaces to taken spaces is 5 : 4, how many spaces are there total?

9) A cafeteria offered two types of milk, regular or chocolate. If they sold 72 cartons total and 27 of them were regular flavor, what is the ratio of chocolate milk sold to regular milk sold?

10) At an ice cream shop the ratio of sugar cones sold to waffle cones sold is 8 : 7. If there are 56 sugar cones sold, how many waffles cones would be sold?

| 1-10 | 90 | 80 | 70 | 60 | 50 | 40 | 30 | 20 | 10 | 0 |

Name:

Solve each problem.

Answers

1) A recipe called for the ratio of sugar to flour to be 7 : 3. If you used 63 ounce of sugar, how many ounces of flour would you need to use?

2) Edward had beaten 24 levels in a video game. If the ratio of levels he had beaten to not beaten was 3 : 1, how many levels does the game have total?

3) At a bake sale there were 52 items sold total. If 24 of the items sold were cookies and the rest were brownies what is the ratio of brownies sold to cookies sold?

4) At the carnival, the ratio of people who won the ring toss game to lost it was 8 : 5. If 24 people won, how many people would have lost?

5) At a bake sale there were 42 raisin cookies sold. If the ratio of raisin cookies sold to oatmeal cookies sold was 6 : 1, what is the combined amount of raisin and oatmeal cookies sold?

6) A parking lot has 117 spaces total. If 36 of the spaces have cars in them, what is the ratio of empty spaces to filled spaces?

7) A classroom had 63 glue sticks. If the ratio of glue sticks to glue bottles was 9 : 1, how many glue bottles did the classroom have?

8) A parking lot has 35 empty space. If the ratio of empty spaces to taken spaces is 5 : 4, how many spaces are there total?

9) A cafeteria offered two types of milk, regular or chocolate. If they sold 72 cartons total and 27 of them were regular flavor, what is the ratio of chocolate milk sold to regular milk sold?

10) At an ice cream shop the ratio of sugar cones sold to waffle cones sold is 8 : 7. If there are 56 sugar cones sold, how many waffles cones would be sold?

	Answers
1.	**27**
2.	**32**
3.	**7 : 6**
4.	**15**
5.	**49**
6.	**9 : 4**
7.	**7**
8.	**63**
9.	**5 : 3**
10.	**49**

1-10	90	80	70	60	50	40	30	20	10	0

Name:

Solve each problem.

7	63	49	7 : 6	32
49	15	9 : 4	27	5 : 3

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

1) A recipe called for the ratio of sugar to flour to be 7 : 3. If you used 63 ounce of sugar, how many ounces of flour would you need to use?

2) Edward had beaten 24 levels in a video game. If the ratio of levels he had beaten to not beaten was 3 : 1, how many levels does the game have total?

3) At a bake sale there were 52 items sold total. If 24 of the items sold were cookies and the rest were brownies what is the ratio of brownies sold to cookies sold?

4) At the carnival, the ratio of people who won the ring toss game to lost it was 8 : 5. If 24 people won, how many people would have lost?

5) At a bake sale there were 42 raisin cookies sold. If the ratio of raisin cookies sold to oatmeal cookies sold was 6 : 1, what is the combined amount of raisin and oatmeal cookies sold?

6) A parking lot has 117 spaces total. If 36 of the spaces have cars in them, what is the ratio of empty spaces to filled spaces?

7) A classroom had 63 glue sticks. If the ratio of glue sticks to glue bottles was 9 : 1, how many glue bottles did the classroom have?

8) A parking lot has 35 empty space. If the ratio of empty spaces to taken spaces is 5 : 4, how many spaces are there total?

9) A cafeteria offered two types of milk, regular or chocolate. If they sold 72 cartons total and 27 of them were regular flavor, what is the ratio of chocolate milk sold to regular milk sold?

10) At an ice cream shop the ratio of sugar cones sold to waffle cones sold is 8 : 7. If there are 56 sugar cones sold, how many waffles cones would be sold?

1-10	90	80	70	60	50	40	30	20	10	0

Solve each problem.

1) At a farm the ratio of cows to horses was 7 : 2. If there were 21 cows at the farm, how many horses were there?

1. _____

2. _____

2) A pet store sold 28 siamese cats. If the ratio of siamese cats to house cats sold was 4 : 1, what is the combined amount of cats sold?

3. _____

3) A restaurant offers diet soda and regular soda. In one day they sold 78 sodas. If 18 of the sodas they sold were diet, what is the ratio of regular sodas sold to diet sodas sold?

4. _____

5. _____

6. _____

4) At the carnival, the ratio of people who won the ring toss game to lost it was 8 : 5. If 56 people won, how many people would have lost?

7. _____

8. _____

5) Kaleb was playing 'Connect Four' with a friend. The ratio of games he won to games he lost was 3 : 2, if he won 18 games, how many games did they play total?

9. _____

10. _____

6) For homework, a student had to complete 54 problems total. If she finished 9 problems in class, what is the ratio of problems she still needs to complete to problems that she's already finished?

7) In one day a movie store rented out 32 comedies. If the ratio of comedies rented to action movies rented was 8 : 7, how many action movies were rented?

8) A produce store sold 32 red apples. If the ratio of red apples to green apples sold was 8 : 3, what is the combined amount of red and green apples sold?

9) During a period of 112 minutes, a music station played 40 minutes of commercials. What is the ratio of music they played to commercials they played?

10) A video uploaded had 42 'up votes'. If the ratio of 'up votes' to 'down votes' was 7 : 6, how many 'down votes' did the video get?

Name: **Answer Key**

Solve each problem.

1) At a farm the ratio of cows to horses was 7 : 2. If there were 21 cows at the farm, how many horses were there?

1. _____**6**_____

2) A pet store sold 28 siamese cats. If the ratio of siamese cats to house cats sold was 4 : 1, what is the combined amount of cats sold?

2. _____**35**_____

3. _____**10 : 3**_____

3) A restaurant offers diet soda and regular soda. In one day they sold 78 sodas. If 18 of the sodas they sold were diet, what is the ratio of regular sodas sold to diet sodas sold?

4. _____**35**_____

5. _____**30**_____

4) At the carnival, the ratio of people who won the ring toss game to lost it was 8 : 5. If 56 people won, how many people would have lost?

6. _____**5 : 1**_____

7. _____**28**_____

5) Kaleb was playing 'Connect Four' with a friend. The ratio of games he won to games he lost was 3 : 2, if he won 18 games, how many games did they play total?

8. _____**44**_____

9. _____**9 : 5**_____

10. _____**36**_____

6) For homework, a student had to complete 54 problems total. If she finished 9 problems in class, what is the ratio of problems she still needs to complete to problems that she's already finished?

7) In one day a movie store rented out 32 comedies. If the ratio of comedies rented to action movies rented was 8 : 7, how many action movies were rented?

8) A produce store sold 32 red apples. If the ratio of red apples to green apples sold was 8 : 3, what is the combined amount of red and green apples sold?

9) During a period of 112 minutes, a music station played 40 minutes of commercials. What is the ratio of music they played to commercials they played?

10) A video uploaded had 42 'up votes'. If the ratio of 'up votes' to 'down votes' was 7 : 6, how many 'down votes' did the video get?

| 1-10 | 90 | 80 | 70 | 60 | 50 | 40 | 30 | 20 | 10 | 0 |

Solve each problem.

10 : 3	30	5 : 1	6	35
44	28	35	9 : 5	36

1. _____

2. _____

3. _____

1) At a farm the ratio of cows to horses was 7 : 2. If there were 21 cows at the farm, how many horses were there?

4. _____

2) A pet store sold 28 siamese cats. If the ratio of siamese cats to house cats sold was 4 : 1, what is the combined amount of cats sold?

5. _____

6. _____

3) A restaurant offers diet soda and regular soda. In one day they sold 78 sodas. If 18 of the sodas they sold were diet, what is the ratio of regular sodas sold to diet sodas sold?

7. _____

8. _____

4) At the carnival, the ratio of people who won the ring toss game to lost it was 8 : 5. If 56 people won, how many people would have lost?

9. _____

5) Kaleb was playing 'Connect Four' with a friend. The ratio of games he won to games he lost was 3 : 2, if he won 18 games, how many games did they play total?

10. _____

6) For homework, a student had to complete 54 problems total. If she finished 9 problems in class, what is the ratio of problems she still needs to complete to problems that she's already finished?

7) In one day a movie store rented out 32 comedies. If the ratio of comedies rented to action movies rented was 8 : 7, how many action movies were rented?

8) A produce store sold 32 red apples. If the ratio of red apples to green apples sold was 8 : 3, what is the combined amount of red and green apples sold?

9) During a period of 112 minutes, a music station played 40 minutes of commercials. What is the ratio of music they played to commercials they played?

10) A video uploaded had 42 'up votes'. If the ratio of 'up votes' to 'down votes' was 7 : 6, how many 'down votes' did the video get?

Name:

Solve each problem.

1) A video uploaded had 54 'up votes'. If the ratio of 'up votes' to 'down votes' was 9 : 8, how many 'down votes' did the video get?

1. _____

2. _____

2) Henry had beaten 12 levels in a video game. If the ratio of levels he had beaten to not beaten was 6 : 1, how many levels does the game have total?

3. _____

4. _____

3) At a bake sale there were 104 items sold total. If 48 of the items sold were cookies and the rest were brownies what is the ratio of brownies sold to cookies sold?

5. _____

6. _____

4) The ratio of shoes sold to sandals sold was 9 : 5. If there were 72 shoes sold, how many sandals were sold?

7. _____

8. _____

5) While completing a race, Will spent 72 minutes walking. If his ratio of time walking to jogging was 8 : 1, how many minutes did he spend completing the race?

9. _____

10. _____

6) During a period of 28 minutes, a music station played 8 minutes of commercials. What is the ratio of music they played to commercials they played?

7) A recipe called for the ratio of sugar to flour to be 10 : 1. If you used 50 ounce of sugar, how many ounces of flour would you need to use?

8) At a restaurant the ratio of kids meals sold to adult meals sold was 2 : 1. If there were 8 kids meals sold, what is the combined amount of kids and adult meals sold?

9) A fast food restaurant sells two sizes of fries, small and large. On Friday they sold 70 fries total. If 21 of the fries sold were small, what is the ratio of large fries sold to small fries sold?

10) At a restaurant the ratio of kids meals sold to adult meals sold was 10 : 7. If there were 70 kids meals sold, how many adult meals were sold?

Name:

Answers

Solve each problem.

1) A video uploaded had 54 'up votes'. If the ratio of 'up votes' to 'down votes' was 9 : 8, how many 'down votes' did the video get?

1. **48**

2) Henry had beaten 12 levels in a video game. If the ratio of levels he had beaten to not beaten was 6 : 1, how many levels does the game have total?

2. **14**

3. **7 : 6**

3) At a bake sale there were 104 items sold total. If 48 of the items sold were cookies and the rest were brownies what is the ratio of brownies sold to cookies sold?

4. **40**

5. **81**

4) The ratio of shoes sold to sandals sold was 9 : 5. If there were 72 shoes sold, how many sandals were sold?

6. **5 : 2**

7. **5**

5) While completing a race, Will spent 72 minutes walking. If his ratio of time walking to jogging was 8 : 1, how many minutes did he spend completing the race?

8. **12**

9. **7 : 3**

10. **49**

6) During a period of 28 minutes, a music station played 8 minutes of commercials. What is the ratio of music they played to commercials they played?

7) A recipe called for the ratio of sugar to flour to be 10 : 1. If you used 50 ounce of sugar, how many ounces of flour would you need to use?

8) At a restaurant the ratio of kids meals sold to adult meals sold was 2 : 1. If there were 8 kids meals sold, what is the combined amount of kids and adult meals sold?

9) A fast food restaurant sells two sizes of fries, small and large. On Friday they sold 70 fries total. If 21 of the fries sold were small, what is the ratio of large fries sold to small fries sold?

10) At a restaurant the ratio of kids meals sold to adult meals sold was 10 : 7. If there were 70 kids meals sold, how many adult meals were sold?

1-10	90	80	70	60	50	40	30	20	10	0

Name:

Solve each problem.

| 40 | 5 | 7 : 6 | 81 | 7 : 3 |
| 5 : 2 | 14 | 12 | 48 | 49 |

1. _____

2. _____

3. _____

1) A video uploaded had 54 'up votes'. If the ratio of 'up votes' to 'down votes' was 9 : 8, how many 'down votes' did the video get?

4. _____

2) Henry had beaten 12 levels in a video game. If the ratio of levels he had beaten to not beaten was 6 : 1, how many levels does the game have total?

5. _____

6. _____

3) At a bake sale there were 104 items sold total. If 48 of the items sold were cookies and the rest were brownies what is the ratio of brownies sold to cookies sold?

7. _____

4) The ratio of shoes sold to sandals sold was 9 : 5. If there were 72 shoes sold, how many sandals were sold?

8. _____

9. _____

5) While completing a race, Will spent 72 minutes walking. If his ratio of time walking to jogging was 8 : 1, how many minutes did he spend completing the race?

10. _____

6) During a period of 28 minutes, a music station played 8 minutes of commercials. What is the ratio of music they played to commercials they played?

7) A recipe called for the ratio of sugar to flour to be 10 : 1. If you used 50 ounce of sugar, how many ounces of flour would you need to use?

8) At a restaurant the ratio of kids meals sold to adult meals sold was 2 : 1. If there were 8 kids meals sold, what is the combined amount of kids and adult meals sold?

9) A fast food restaurant sells two sizes of fries, small and large. On Friday they sold 70 fries total. If 21 of the fries sold were small, what is the ratio of large fries sold to small fries sold?

10) At a restaurant the ratio of kids meals sold to adult meals sold was 10 : 7. If there were 70 kids meals sold, how many adult meals were sold?

Solve each problem.

1) At the carnival, the ratio of people who won the ring toss game to lost it was 4 : 1. If 28 people won, how many people would have lost?

1. _____

2. _____

2) A chess player won 48 of the games he played. If his ratio of wins to loses was 8 : 7, how many games did he play total?

3. _____

4. _____

3) During a period of 80 minutes, a music station played 8 minutes of commercials. What is the ratio of music they played to commercials they played?

5. _____

6. _____

4) In one day a movie store rented out 18 comedies. If the ratio of comedies rented to action movies rented was 6 : 5, how many action movies were rented?

7. _____

8. _____

5) A pet store sold 12 siamese cats. If the ratio of siamese cats to house cats sold was 2 : 1, what is the combined amount of cats sold?

9. _____

10. _____

6) A produce store offers red and green apples. In one morning they sold 77 apples total. If 7 of the apples they sold were red, what is the ratio of green apples sold to red apples sold?

7) The ratio of white chocolate to dark chocolate sold at a candy shop was 4 : 3. If there were 28 bars of white chocolate sold, how many bars of dark chocolate were sold?

8) A fast food restaurant sold 54 burgers with cheese. If the ratio of burgers sold with cheese compared to without cheese was 9 : 5, how many burgers did they sell total?

9) A cafeteria offered two types of milk, regular or chocolate. If they sold 24 cartons total and 3 of them were regular flavor, what is the ratio of chocolate milk sold to regular milk sold?

10) At a restaurant the ratio of kids meals sold to adult meals sold was 7 : 3. If there were 35 kids meals sold, how many adult meals were sold?

| 1-10 | 90 | 80 | 70 | 60 | 50 | 40 | 30 | 20 | 10 | 0 |

Name:

Solve each problem.

Answers

1) At the carnival, the ratio of people who won the ring toss game to lost it was 4 : 1. If 28 people won, how many people would have lost?

1. _____ **7**

2) A chess player won 48 of the games he played. If his ratio of wins to loses was 8 : 7, how many games did he play total?

2. _____ **90**

3) During a period of 80 minutes, a music station played 8 minutes of commercials. What is the ratio of music they played to commercials they played?

3. _____ **9 : 1**

4. _____ **15**

4) In one day a movie store rented out 18 comedies. If the ratio of comedies rented to action movies rented was 6 : 5, how many action movies were rented?

5. _____ **18**

6. _____ **10 : 1**

7. _____ **21**

5) A pet store sold 12 siamese cats. If the ratio of siamese cats to house cats sold was 2 : 1, what is the combined amount of cats sold?

8. _____ **84**

9. _____ **7 : 1**

10. _____ **15**

6) A produce store offers red and green apples. In one morning they sold 77 apples total. If 7 of the apples they sold were red, what is the ratio of green apples sold to red apples sold?

7) The ratio of white chocolate to dark chocolate sold at a candy shop was 4 : 3. If there were 28 bars of white chocolate sold, how many bars of dark chocolate were sold?

8) A fast food restaurant sold 54 burgers with cheese. If the ratio of burgers sold with cheese compared to without cheese was 9 : 5, how many burgers did they sell total?

9) A cafeteria offered two types of milk, regular or chocolate. If they sold 24 cartons total and 3 of them were regular flavor, what is the ratio of chocolate milk sold to regular milk sold?

10) At a restaurant the ratio of kids meals sold to adult meals sold was 7 : 3. If there were 35 kids meals sold, how many adult meals were sold?

Solve each problem.

90	7	15	84	10 : 1
21	7 : 1	18	9 : 1	15

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

1) At the carnival, the ratio of people who won the ring toss game to lost it was 4 : 1. If 28 people won, how many people would have lost?

2) A chess player won 48 of the games he played. If his ratio of wins to loses was 8 : 7, how many games did he play total?

3) During a period of 80 minutes, a music station played 8 minutes of commercials. What is the ratio of music they played to commercials they played?

4) In one day a movie store rented out 18 comedies. If the ratio of comedies rented to action movies rented was 6 : 5, how many action movies were rented?

5) A pet store sold 12 siamese cats. If the ratio of siamese cats to house cats sold was 2 : 1, what is the combined amount of cats sold?

6) A produce store offers red and green apples. In one morning they sold 77 apples total. If 7 of the apples they sold were red, what is the ratio of green apples sold to red apples sold?

7) The ratio of white chocolate to dark chocolate sold at a candy shop was 4 : 3. If there were 28 bars of white chocolate sold, how many bars of dark chocolate were sold?

8) A fast food restaurant sold 54 burgers with cheese. If the ratio of burgers sold with cheese compared to without cheese was 9 : 5, how many burgers did they sell total?

9) A cafeteria offered two types of milk, regular or chocolate. If they sold 24 cartons total and 3 of them were regular flavor, what is the ratio of chocolate milk sold to regular milk sold?

10) At a restaurant the ratio of kids meals sold to adult meals sold was 7 : 3. If there were 35 kids meals sold, how many adult meals were sold?

Solve each problem.

1) In one day a movie store rented out 50 comedies. If the ratio of comedies rented to action movies rented was 10 : 7, how many action movies were rented?

1. _____

2. _____

2) A chess player won 90 of the games he played. If his ratio of wins to loses was 10 : 3, how many games did he play total?

3. _____

4. _____

3) A restaurant offers diet soda and regular soda. In one day they sold 64 sodas. If 28 of the sodas they sold were diet, what is the ratio of regular sodas sold to diet sodas sold?

5. _____

6. _____

4) The ratio of red cars to blue cars in a parking lot was 8 : 7. If there were 48 red cars, how many blue cars were there?

7. _____

8. _____

5) While completing a race, Will spent 14 minutes walking. If his ratio of time walking to jogging was 7 : 6, how many minutes did he spend completing the race?

9. _____

10. _____

6) For homework, a student had to complete 70 problems total. If she finished 21 problems in class, what is the ratio of problems she still needs to complete to problems that she's already finished?

7) At a restaurant the ratio of kids meals sold to adult meals sold was 8 : 5. If there were 72 kids meals sold, how many adult meals were sold?

8) A cafeteria sold 49 cartons of regular flavored milk. If the ratio of regular milk sold to chocolate milk sold was 7 : 2, what is the combined amount of chocolate and regular milk sold?

9) Tom had 54 songs on his MP3 player. If he deleted 9 songs, what is the ratio of songs he kept to songs he deleted?

10) At an ice cream shop the ratio of sugar cones sold to waffle cones sold is 5 : 4. If there are 45 sugar cones sold, how many waffles cones would be sold?

Solve each problem.

1) In one day a movie store rented out 50 comedies. If the ratio of comedies rented to action movies rented was 10 : 7, how many action movies were rented?

2) A chess player won 90 of the games he played. If his ratio of wins to loses was 10 : 3, how many games did he play total?

3) A restaurant offers diet soda and regular soda. In one day they sold 64 sodas. If 28 of the sodas they sold were diet, what is the ratio of regular sodas sold to diet sodas sold?

4) The ratio of red cars to blue cars in a parking lot was 8 : 7. If there were 48 red cars, how many blue cars were there?

5) While completing a race, Will spent 14 minutes walking. If his ratio of time walking to jogging was 7 : 6, how many minutes did he spend completing the race?

6) For homework, a student had to complete 70 problems total. If she finished 21 problems in class, what is the ratio of problems she still needs to complete to problems that she's already finished?

7) At a restaurant the ratio of kids meals sold to adult meals sold was 8 : 5. If there were 72 kids meals sold, how many adult meals were sold?

8) A cafeteria sold 49 cartons of regular flavored milk. If the ratio of regular milk sold to chocolate milk sold was 7 : 2, what is the combined amount of chocolate and regular milk sold?

9) Tom had 54 songs on his MP3 player. If he deleted 9 songs, what is the ratio of songs he kept to songs he deleted?

10) At an ice cream shop the ratio of sugar cones sold to waffle cones sold is 5 : 4. If there are 45 sugar cones sold, how many waffles cones would be sold?

	Answers
1.	**35**
2.	**117**
3.	**9 : 7**
4.	**42**
5.	**26**
6.	**7 : 3**
7.	**45**
8.	**63**
9.	**5 : 1**
10.	**36**

Name:

Solve each problem.

5 : 1	26	117	63	7 : 3
42	45	36	9 : 7	35

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

1) In one day a movie store rented out 50 comedies. If the ratio of comedies rented to action movies rented was 10 : 7, how many action movies were rented?

2) A chess player won 90 of the games he played. If his ratio of wins to loses was 10 : 3, how many games did he play total?

3) A restaurant offers diet soda and regular soda. In one day they sold 64 sodas. If 28 of the sodas they sold were diet, what is the ratio of regular sodas sold to diet sodas sold?

4) The ratio of red cars to blue cars in a parking lot was 8 : 7. If there were 48 red cars, how many blue cars were there?

5) While completing a race, Will spent 14 minutes walking. If his ratio of time walking to jogging was 7 : 6, how many minutes did he spend completing the race?

6) For homework, a student had to complete 70 problems total. If she finished 21 problems in class, what is the ratio of problems she still needs to complete to problems that she's already finished?

7) At a restaurant the ratio of kids meals sold to adult meals sold was 8 : 5. If there were 72 kids meals sold, how many adult meals were sold?

8) A cafeteria sold 49 cartons of regular flavored milk. If the ratio of regular milk sold to chocolate milk sold was 7 : 2, what is the combined amount of chocolate and regular milk sold?

9) Tom had 54 songs on his MP3 player. If he deleted 9 songs, what is the ratio of songs he kept to songs he deleted?

10) At an ice cream shop the ratio of sugar cones sold to waffle cones sold is 5 : 4. If there are 45 sugar cones sold, how many waffles cones would be sold?