



Ratio Word Problems for 6th Grade

Questions

1. There are 5 people in a room, three of which are boys and two of which are girls. What is the ratio of boys to girls?
2. 48 apples need to be divided into a ratio of 2:4:6 to fit into three different buckets. How many apples go into the smallest bucket?
3. Two trains are passing each other on the train track. One has 18 carriages and the other has 90 carriages. How many times fewer carriages has the one train compared to the other?
4. What is the ratio of cupcakes to the total number of items in the picture below?



5. Jemima brought 10 cupcakes and Eddy brought 6 cupcakes to share for their class. What is the ratio of Jemima's total cupcakes to Eddy's?
6. Tammi has a bowl of fruit which has only apples and bananas. The ratio is 2 apples to each banana. If there are a total of 15 fruits in the bowl, how many apples are there?





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7. What is the ratio of presents to the total number of items in the picture on the right?



8. If a pet store has a total of 66 cats and dogs into a ratio of 2 cats per dog, how many cats are there?
9. Convert 100m to feet if the ratio of meters to feet is 1 meter to 3,28 feet.
10. On a cruise ship, there is a ratio of 3 adults to every 1 child. If there were a total of 400 people on the cruise ship, how many of the people were children?





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Answers

- 1. 3:2**
There are 3 boys to every 2 girls therefore the ratio is 3:2
- 2. 8**
2 : 4 : 6 can be simplified to 1 : 2 : 3
And $1 + 2 + 3 = 6$
We divide the total apples by 6
 $48 \div 6 = 8$
Ratio of the smallest bucket is 1 : 6 therefore:
 $8 \times 1 = 8$
- 3. 5 x fewer**
The ratio is 18:90
To simplify this you can divide each side by 18 and the ratio you are left with is 1:5
- 4. 3:16**
There are 3 cupcakes and 16 items in the picture.
- 5. 5:3**
The ratio can be written as Jemima 10 : Eddy 6 which can be simplified if we divide each side by 2 leaving us with:
5:3
- 6. 10**
We know that the fruit ratio is 2 apples : 1 banana meaning there are a total of 3 fruits per fruit grouping (2 apples + 1 banana).
 $15 \div 3 = 5$ fruit groupings
 5×2 apples per group = 10 apples in total





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Answers

7. **1:4**
There are 4 presents and 16 items in the picture.
 $4:16$ can be simplified to $1:4$
8. **44**
We know that the pet ratio is 2 cats : 1 dog meaning there are a total of 3 pets per group (2 cats + 1 dog).
 $66 / 3 = 22$ pet groups
 22×2 cats per group = 44 cats in total
9. **328 feet**
The ratio of meters to feet is 1 meter : 3,28 feet. Multiply your feet by 100 to convert the ratio.
 $100 \text{ m} : 328 \text{ feet}$
10. **100**
We know that the people ratio is 3 adults : 1 child meaning there are a total of 4 people per group (3 adults + 1 child).
 $400 / 4 = 100$ groups of people
 100×1 child per group = 100 children in total

