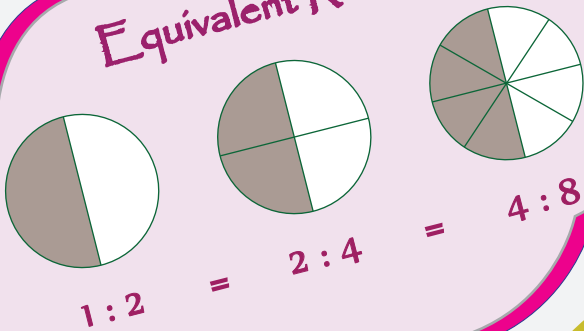
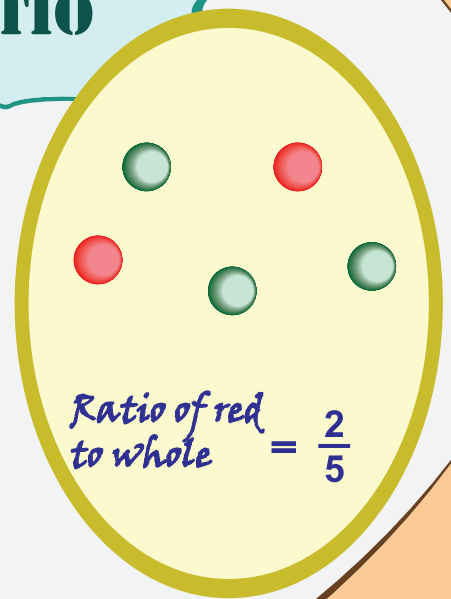
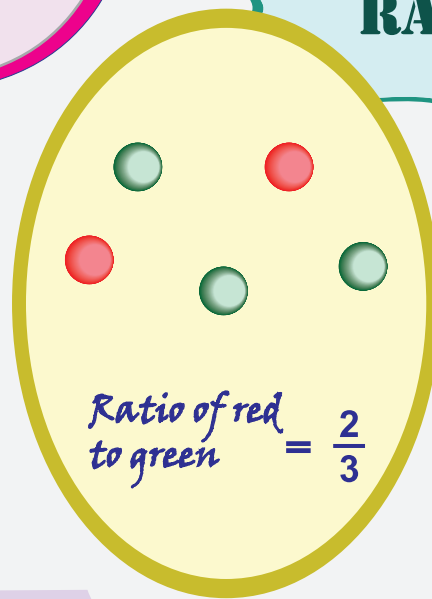


# Ratio

## Equivalent Ratios

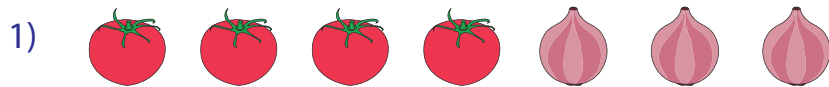


## RATIO

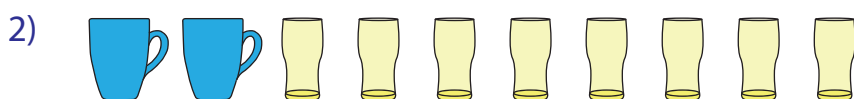


Words	Ratio	Fraction
3 to 5	3 : 5	$\frac{3}{5}$

## Ratio: Part to Part





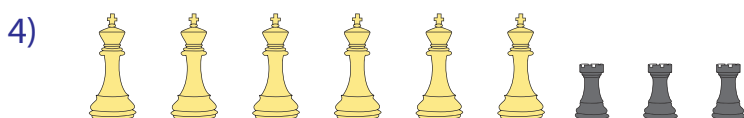
The ratio of  to  =



The ratio of  to  =



The ratio of  to  =



The ratio of  to  =



The ratio of  to  =

## Ratio: Part to Whole

1)



The ratio of chairs to furniture

---

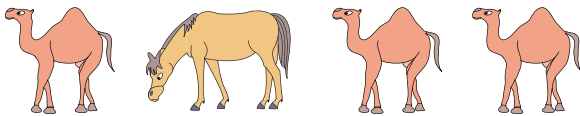
2)



The ratio of pumpkins to vegetables

---

3)



The ratio of animals to camels

---

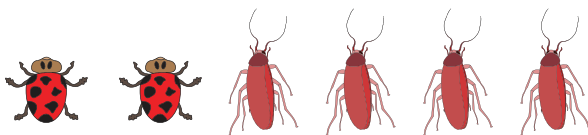
4)



The ratio of tools to knives

---

5)



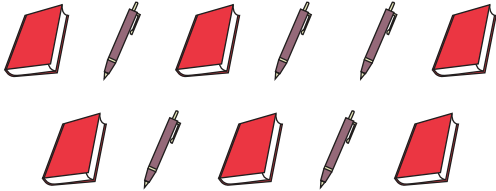
The ratio of ladybugs to insects

---

## Ratio in Three Ways: Part to Part

Write the ratio in three different ways.

1) Books to pens

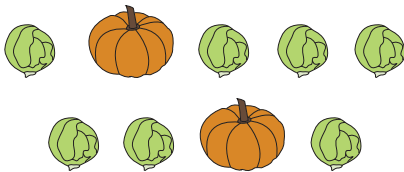


Words : \_\_\_\_\_

Ratio : \_\_\_\_\_

Fraction : \_\_\_\_\_

2) Pumpkins to cabbages

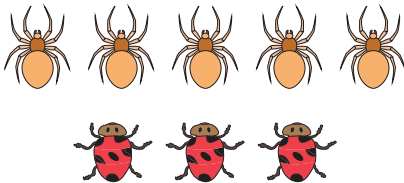


Words : \_\_\_\_\_

Ratio : \_\_\_\_\_

Fraction : \_\_\_\_\_

3) Spiders to ladybugs

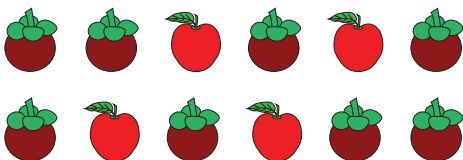


Words : \_\_\_\_\_

Ratio : \_\_\_\_\_

Fraction : \_\_\_\_\_

4) Apples to mangosteens

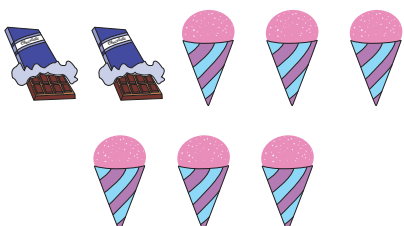


Words : \_\_\_\_\_

Ratio : \_\_\_\_\_

Fraction : \_\_\_\_\_

5) Snow cones to chocolates



Words : \_\_\_\_\_

Ratio : \_\_\_\_\_

Fraction : \_\_\_\_\_

## Ratio in Three Ways: Part to Part

- 1) Write the ratio of 17 balls to 2 bats in three ways.

Words	Ratio	Fraction

- 2) Write the ratio of 3 cats to 5 rats in three ways.

Words	Ratio	Fraction

- 3) Write the ratio of 6 girls to 8 boys in three ways.

Words	Ratio	Fraction

- 4) Write the ratio of 11 cars to 20 bikes in three ways.

Words	Ratio	Fraction

- 5) A pack of mixed chocolates has 15 milk chocolates and 25 caramel filled chocolates. What is the ratio of milk chocolates to caramel filled chocolates? Write the ratio in three ways.



\_\_\_\_\_

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## Ratio: Mixed Word Problems

- 1) A truck carries apples, grapes, and blackberries in the ratio of 4 : 3 : 4. If the apples weigh 160 pounds, how much does the truckload of fruit weigh in total?

---

- 2) The ratio of lemon to water in 80 fl.oz of lemonade is 3 : 1. The lemonade was diluted further. If the new ratio was 2 : 2, how much water was added to dilute the lemonade?

---

- 3) The first angle in a triangle is three times that of the second angle. The second angle is two times that of the third angle. Find the ratio of the angles in the triangle.

---

- 4) The scale of a map measures 1 inch : 1250 miles. If the distance between two cities measures 3 inches on the map, find the actual distance between the two cities on the ground.

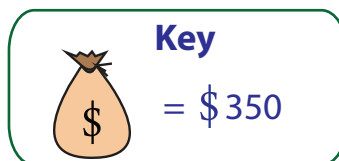
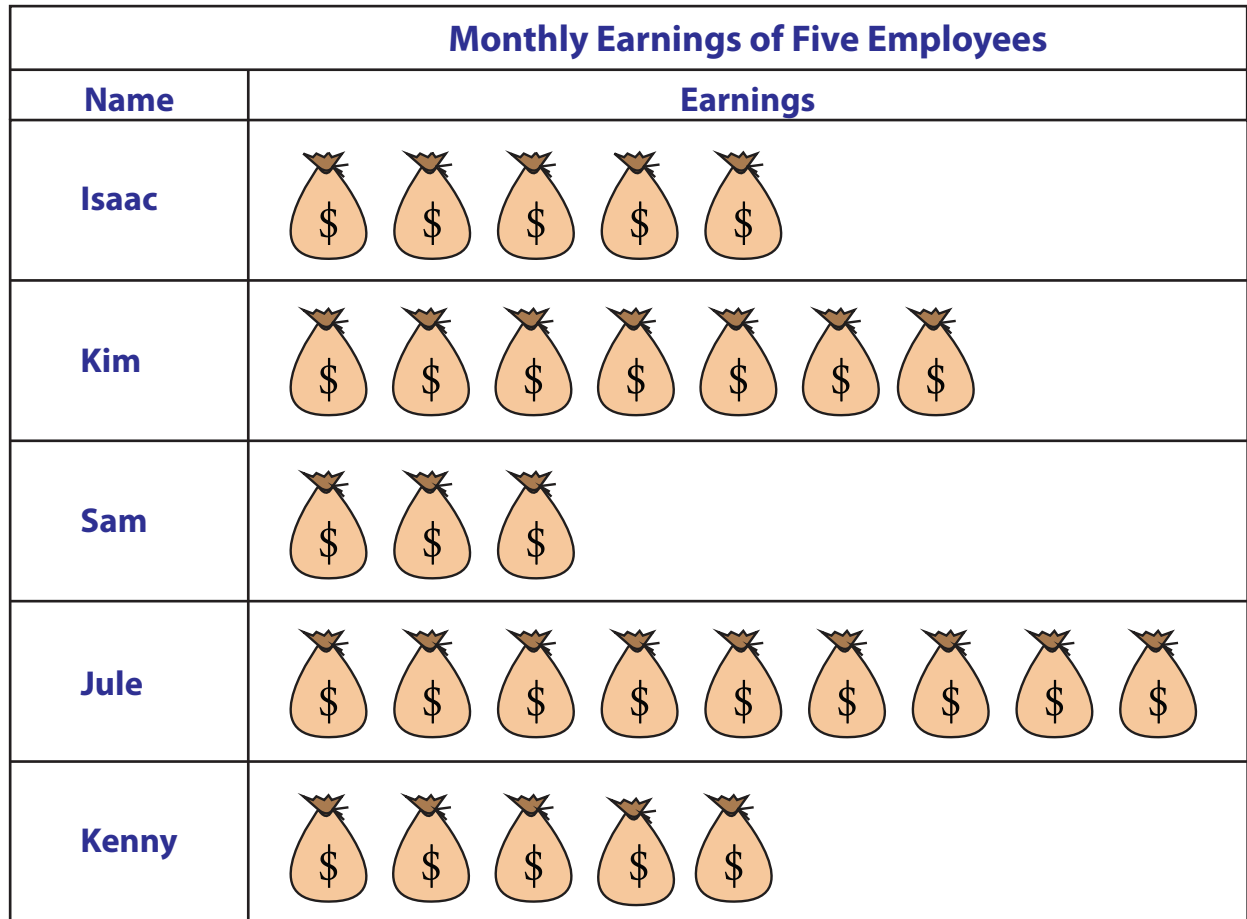
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- 5) A sum of \$2700 is shared among Eric, Jo and Richard. Jo's share is two times that of Richard's share. Eric's share is three times that of Jo's share. Find Eric's share.

---

## Pictograph - Earnings

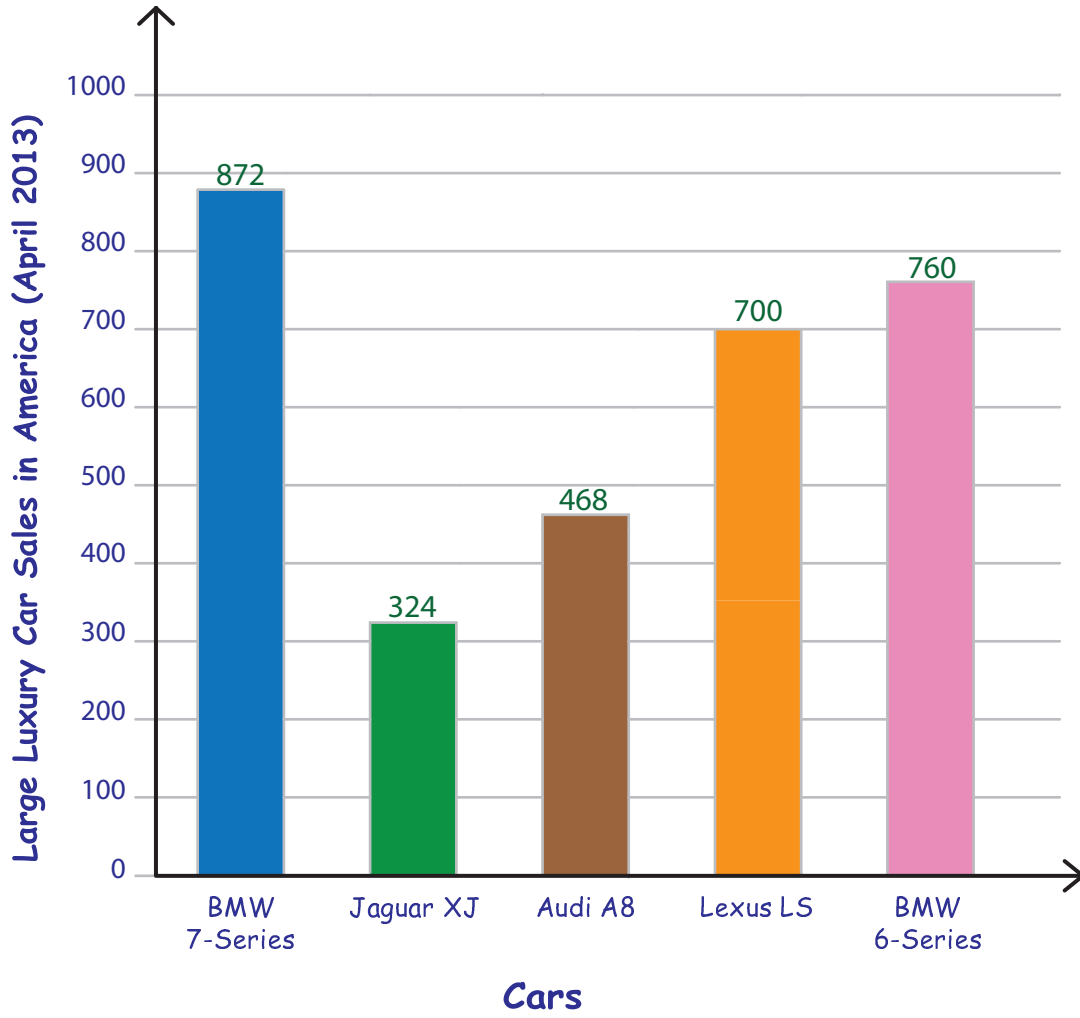
The pictograph below displays the monthly salary of five employees. Look at the pictograph, use the key provided below, and answer the questions that follow.



- 1) What is the ratio of Isaac's to Jule's earnings? \_\_\_\_\_
- 2) Find the ratio of Kenny's earnings to Isaac's earnings. \_\_\_\_\_
- 3) What is the ratio of Kenny's earnings to Jule's and Sam's earnings? \_\_\_\_\_
- 4) Calculate the ratio of Jule's earnings to the total earnings of all five employees. \_\_\_\_\_
- 5) Write down the ratio of the highest earnings to the lowest earnings \_\_\_\_\_

## Ratio - Car Sales

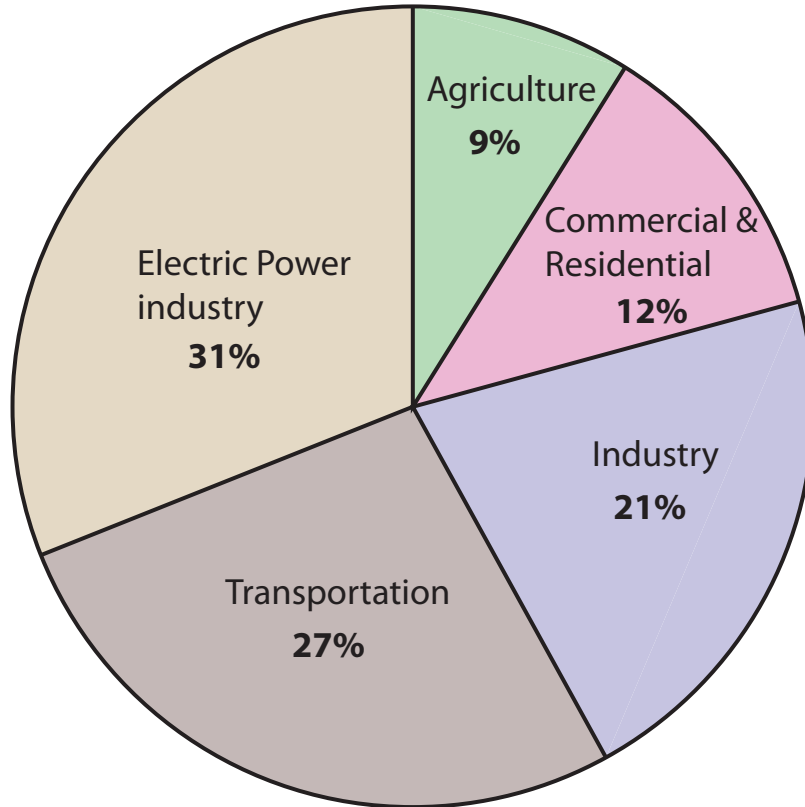
The graph below displays the actual sales of large luxury cars in April 2013 in USA. Read the graph and answer the questions that follow.



- 1) What is the ratio of the sales of the BMW 7-Series cars to the BMW 6-Series cars? \_\_\_\_\_
  
- 2) Find the number of Lexus LS cars to the number of Jaguar XJ cars sold in April 2013. \_\_\_\_\_
  
- 3) If the sales of Jaguar XJ increases by 144, what would be the new ratio of sales of Audi A8 to Jaguar XJ? \_\_\_\_\_
  
- 4) Calculate the ratio of the maximum number of cars sold to the least number of cars sold. \_\_\_\_\_
  
- 5) What is the ratio of the total number of BMW luxury cars sold to the rest of the luxury cars sold in April 2013? \_\_\_\_\_

## Ratio - Greenhouse Gas Emissions

The total U.S Greenhouse Gas Emissions by the Economic sectors in 2013 is represented in the pie graph below. Read the graph and answer the questions that follow.



- 1) Find the ratio of green house gas emissions generated by the transportation sector to the emissions generated by the agricultural sector.  
\_\_\_\_\_
- 2) What is the ratio of green house gas emissions generated by the industrial sector to the emissions generated by the commercial and residential energy sector?  
\_\_\_\_\_
- 3) Find the ratio of the emissions generated by the agricultural sector to the emissions generated by the industrial sector.  
\_\_\_\_\_
- 4) Identify the ratio between the economic sectors that generated the highest and the lowest green house gas emissions in 2013.  
\_\_\_\_\_
- 5) Find the ratio of green house gas emissions generated by the electric power sector to the total green house gas emissions generated by the entire economic sector.  
\_\_\_\_\_