2 diamond rings and 4 silver rings cost $1,440. A diamond ring and a silver ring cost $660. How much does a silver ring cost?

Question 2

Logan and Izzy had the same number of stickers. After Izzy gave him 72 stickers, Logan had 3 times as many stickers as Izzy. How many stickers did they have altogether?

Question 3

David and Amrita had an equal number of marbles. After Amrita gave 50 marbles to David, he had 5 times as many marbles as her. Find the total number of marbles they had.

Soo-Jin and Mary had an equal number of beads. After Soo-Jin gave 54 beads to Mary, Mary had 7 times as many beads as Soo-Jin. How many beads did they have altogether?

Antonio and Abby had the same number of paperclips. After Antonio gave 30 paperclips to Abby, Abby had twice as many paperclips as Antonio. How many paperclips did they have in all?

Emily and Jasmine had the same number of stamps. After Emily gave 42 stamps to Jasmine, Jasmine had twice as many stamps as Emily. How many stamps did Jasmine have in the end?

Elena has 60 colored pencils. Lucy has 26 colored pencils. How many pencils must Elena give to Lucy so that Elena will have 4 more colored pencils than Lucy?

Dylan, Michael, and Jeremy had $171. Michael had twice as much money as Dylan. Jeremy had 3 times as much money as Michael. How much money did Jeremy have?

Andy and Ben had a total of $60. If Andy gave Ben $8, they would have an equal amount of money. How much money did Ben have in the beginning?

Maddy had twice as many stamps as Simon. After Maddy sold 60 stamps, Simon had twice as many stamps as Maddy. How many more stamps did Maddy have than Simon in the beginning?

Mrs. Owen ordered 500 chicken wings to be shared equally among 250 guests invited to her wedding anniversary party. However, the turnout was less than expected, and every guest ate one more chicken wing than originally planned. If there were 92 chicken wings left after the party, how many people attended Mrs. Owen's party?

The total number of cherries on a plate, in a cup, and in a bowl is 780. The plate contains 145 cherries. The number of cherries in the bowl is 4 times the total number of cherries on the plate and in the cup. How many cherries are in the cup?

Omar is 3 times as old as Jason. Henry is 5 years older than Jason. If their total age is 80 years old, how much older is Omar than Henry?

Mrs. Anderson had twice as many chickens as ducks. She sold 272 chickens and 16 ducks. She then had half as many chickens as ducks. How many chickens did she have in the beginning?

Mrs. Ortega paid $188 for some jeans and T-shirts. A pair of jeans cost $26, and a T-shirt was $16 cheaper than a pair of jeans. If Mrs. Ortega bought 3 pairs of jeans, how many T-shirts did she buy?

Carmen had $130 more than her sister, Rosa. Rosa had twice as much money as their youngest sister, Zoe. If their mother gave Carmen $60 and Rosa $80, Carmen would have twice as much money as Rosa. What was the total amount of money they had in the beginning?

Kenji, James, and Ethan shared 240 stickers. Kenji received twice as many stickers as James. James received 3 times as many stickers as Ethan. How many stickers did Kenji receive?

Mrs. Rothberg baked 500 muffins on Saturday and 3 times as many muffins on Sunday. If she sold 5 muffins for $4, how much would she earn by selling all her muffins on both days?

Jack had $80 more than Eric. When Jack spent $30, he found that the amount of money he had left was twice as much as what Eric had. How much did the boys have altogether in the beginning?

A shirt cost $15 more than a pair of shorts. Terrell paid $101 for 3 shirts and 5 pairs of shorts. How much did each shirt cost?

A watch costs \$48 more than a clock. The cost of the clock is $\frac{4}{7}$ the cost of the watch. Find the total cost of the 2 items.

Sam had 70 erasers and rulers. After giving away $\frac{1}{3}$ of his erasers and 10 rulers, he had an equal number of erasers and rulers left. How many erasers did he have in the beginning?

Question 23

A farmer had a total of 700 goats and sheep. If he sold $\frac{3}{4}$ of his goats and 400 sheep, he would have an equal number of goats and sheep left. How many more sheep than goats did he have in the beginning?

Question 24

In a factory, the number of female workers is $3\frac{2}{3}$ times the number of male workers. There are 16 more female than male workers. Find the total number of workers in the factory.

Nikhil had $\frac{3}{7}$ as many books as William. They had a total of 340 books. How many books must William give to Nikhil so that each of them would have the same number of books?

Mrs. Yang bought 5 chickens and 3 ducks for $81. A chicken cost $5 more than a duck.

(a)   What was the cost of each duck?

(b)   What was the cost of each chicken?

Kelly bought 4 apples and 6 pears for $5. Joey bought 8 apples and 2 pears for $4. Find the price of an apple.

Find a number that is more than 50 but less than 100. When the number is divided by 7, the remainder is 4. When the number is divided by 10, the remainder is 8. What is the number?

Meera paid $240 for 4 pairs of shoes and 4 pairs of shorts. Each pair of shoes cost 4 times as much as a pair of shorts. Find the difference in price between a pair of shoes and a pair of shorts.

Aunt Jane is 31 years old. Her daughter is 13 years old. How many years ago was Aunt Jane 3 times as old as her daughter?

Caleb had 90 pencils and pens. After giving away $\frac{1}{3}$ of his pencils and 10 pens, he had an equal number of pencils and pens left. How many pencils did he have in the beginning?

The sum of Mr. O'Malley's age and his son's age is 38 years this year. 4 years ago, Mr. O'Malley was 5 times as old as his son.

(a) How old is his son this year?

(b) How old is Mr. O'Malley this year?

This year, Albert and his grandfather's ages total 64 years. In 3 years, Albert's grandfather will be 6 times as old as Albert. How many years older than Albert is his grandfather this year?

I am a number between 60 and 80. I have a remainder of 3 when divided by 4. I have a remainder of 1 when divided by 7. What number am I?

When a number is divided by 3, the remainder is 1. When the same number is divided by 4, the remainder is 2. If the number is between 50 and 60, what is the number?

Sarah spent $\frac{4}{9}$ of her paycheck on food, $\frac{1}{3}$ of her remaining money on rent, $180 on shopping, $270 on clothing, and saved the remaining $50. What fraction of her paycheck did she save?

Carter and Ari had $240 altogether. Ari had twice as much as Carter after Carter gave him $16. How much more money did Ari have than Carter in the beginning?

8 shirts and 5 pairs of pants cost $695 altogether. 3 shirts and 3 pairs of pants cost $300 altogether. How much more does each shirt cost than each pair of pants?

Ella and Nico had $250 altogether. If Nico spent $35, he would still have $5 more than Ella. How much money did Ella have?

Manuel had some marbles. He gave Lily half of his marbles plus 1 more. He gave Matt half of the remaining marbles plus 2 more. If he had 5 marbles left in the end, how many marbles did Manuel have in the beginning?

Xavier, Thomas, and Mei had 650 marbles. Thomas had 3 times as many marbles as Mei. Mei had 50 fewer marbles than Xavier. How many marbles did Xavier and Mei have altogether?

There were an equal number of boys and girls in a school auditorium. After 24 boys left the auditorium, there were 3 times as many girls as boys. How many children were there in the beginning?

Nathan and Audrey had $250. After Audrey gave $10 to Nathan, they had the same amount of money left. How much money did Nathan have in the beginning?

8 waffles cost $4 more than 8 pancakes. Harry paid $18 for 4 pancakes and 4 waffles. What was the cost of a pancake?

The cost of an angelfish and a goldfish was $8. Adam bought 6 angelfish, 2 goldfish, and a swordtail for $34. If the total cost of an angelfish and a swordtail was $10.50, what was the cost of a goldfish?

Luisa and Sierra had 19 stamps. After Sierra gave Luisa 2 stamps, Sierra had 1 more stamp than Luisa. How many stamps did Sierra have in the beginning?

Austin spent an equal amount of money on 5 DVDs and 7 CDs. Each DVD cost 30 cents more than each CD. How much did Austin spend altogether?

Rashad had ducks and cows on his farm. These 14 animals had a total of 40 legs. How many cows and ducks were there?

Benjamin has 10 bills that add up to $320. Some are 50-dollar bills, and the rest are 20-dollar bills. How many 50-dollar bills and 20-dollar bills does he have?

Mr. Sanders had 20 bills. Some of them were 5-dollar bills, and the rest were 20-dollar bills. The total value of the bills was $220. How many bills of each kind were there?

Jeremy bought 16 boxes of crayons, with each box containing 15 crayons. He gave all the crayons to 20 children during a birthday party. There were 4 more boys than girls. If each child received the same number of crayons, how many more crayons did the boys receive than the girls?

Takashi spent $\frac{1}{3}$ of his money on a jacket. He spent $\frac{1}{4}$ of the remaining money on a pair of boots. If the pair of boots cost $35 less than the jacket, how much money did he have in the beginning?

2 boxes of salt and a box of sugar cost $6.60. A box of salt is $1.20 less than a box of sugar. What is the cost of a box of sugar?

June bought 5 mechanical pencils and some pens at a stationery shop. Each mechanical pencil cost $4. Each pen cost $10 less than 5 mechanical pencils. If June spent $90, how many pens did she buy?

Max and his two brothers, Sean and Kennedy, received a sum of money. Max received 3 times as much as Sean. Max received $400 more than Kennedy. If Sean received $280, what was the total amount of money the 3 brothers received?

Kyra has 175 pieces of colored paper. Rico has 3 times as many pieces as Kyra. Grace has twice as many pieces as Rico. How many pieces of colored paper does Grace have?

Blake bought 5 books and 9 file folders. He gave the cashier $50 and received $2.05 in change. If each book cost $6.35, what was the cost of each file folder?

Stephen has 356 pennies. Jess has 136 more pennies than Stephen. Tommy has twice as many pennies as Jess. How many pennies do they have altogether?

Mr. Knapp had some stamps. If he gave 7 stamps to each of his children, he would have 5 stamps left. If he gave 8 stamps to each child, he would need 3 more stamps in order for the children to have an equal number of stamps. How many stamps did Mr. Knapp have?

Mrs. Reyes had some apples. If she gave each student 3 apples, she would have 2 apples left. If she gave each student 4 apples, she would be short 2 apples. How many apples did she have?

$\frac{3}{10}$ of the people in a supermarket are children. There are 84 adults.

(a)   How many people are in the supermarket altogether?

(b)   How many more adults than children are there?

$\frac{3}{11}$ of the people in the audience at a concert hall are children. There are 800 more adults than children.

(a)   How many people are at the concert hall?

(b) $\frac{3}{8}$ of the children are girls. How many more boys than girls are there?

There were a total of 800 novels and nonfiction books at a bookshop. $\frac{2}{5}$ of these books were novels. Each novel was priced at \$7. Each nonfiction book was priced at \$5. How much money would the owner of the bookshop make if he sold $\frac{3}{8}$ of the novels and $\frac{2}{5}$ of the nonfiction books?

Question 64

There was a total of 400 oranges and mangoes at a fruit stall. $\frac{3}{8}$ of these fruits were mangoes. Each orange was priced at 40 cents, and each mango was priced at 60 cents. How much would Mr. Mead make if he sold $\frac{2}{3}$ of the mangoes and $\frac{4}{5}$ of the oranges?

Allison has $3\frac{1}{3}$ times as many stickers as Sophia. Sophia has 18 stickers. How many stickers do they have altogether?

A pineapple and 4 oranges cost $8.40. The pineapple costs $5.90 more than an orange. Find the cost of the pineapple.

Brady gave $\frac{1}{5}$ of his paycheck to his mother and spent $\frac{1}{2}$ of the remainder on a radio. He had $450 left. How much was his paycheck?

A rope is 20.85 m long. Two pieces of 1.85 m each are cut from it, and the remainder is cut into 7 equal pieces. How long is each of the 7 equal pieces of rope?

A painting measures 30 in. by 20 in. The border around the painting is 3 in. wide. Find the area of the border.

At a movie, $\frac{1}{4}$ of the people in the theater were men, $\frac{5}{8}$ were women, and the rest were children. If there were 100 more women than children, what was the total number of people in the theater?