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### Consecutive Integer Word Problems

<p>1. There are three consecutive even integers. Half the sum of the second and third numbers is 35. What are the integers?</p>	<p>2. The sum of two consecutive integers is 65. What is the second number?</p>
<p>3. What are two consecutive integers, such that seven times the larger minus three times the smaller is 95?</p>	<p>4. The sum of four consecutive odd integers is -28,458,968. What is the second number?</p>

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### Money / Mixture Word Problems

<p>1. Samantha has a total of one hundred forty-one pennies, nickels and quarters. She has a total of \$15.17. She has fifteen more quarters than pennies and fifteen fewer quarters than nickels. How many of each coin does she have?</p>	<p>2. Jordan has a total of one hundred thirty nickels, dimes and quarters. He has three and a half times as many nickels as dimes, and one-half as many quarters as dimes. How much money does he have?</p>
<p>3. Austin has nickels, dimes and quarters. He has a total of \$17.65. He has eleven fewer quarters than nickels and six times as many dimes as quarters. How many of each coin does he have?</p>	<p>4. Cody has pennies, dimes and quarters. He has a total of \$17.64. He has two times as many quarters as dimes and one-third as many dimes as pennies. How many of each coin does he have?</p>

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**Solution / Mixture Word Problems**

<p>1. Lauren wants to mix 5 liters of 7% milk with skim-milk (0% fat) to produce a mixture of <math>2\frac{46}{47}</math>% milk. How much skim-milk should Lauren add?</p>	<p>2. Jasmine works at the Juice company which makes fruit juice. The company's most popular fruit juice contains 20% of real fruit juice and 80% of a non-fruit juice. How much of non-fruit juice should be added to 8 liters of fruit juice to make the popular fruit juice?</p>
<p>3. How much water should be added to one liter of pure alcohol to make a mixture of 50% alcohol?</p>	<p>4. At EdHelper Coffee, one kind of coffee sells for \$1 a cup and another sells for \$3.25 a cup. How much of each coffee should be used to make 9 cups of a coffee mixture which sells for \$2.75 a cup?</p>

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### Combination / Mixture Word Problems

<p>1. The Florist sells roses at \$11.72 a bunch, tulips at \$4.50 a bunch, and daffodils at \$5.22 a bunch. Ryan ordered a banquet of 19 bunches of roses and tulips. If he wants to spend exactly \$114.38, how many bunches of each can he buy?</p>	<p>2. Samuel has an alloy containing 11% gold. Taylor has <math>\frac{1}{2}</math> ounces of an alloy containing 70% gold. They combined their alloys to make an alloy with <math>36\frac{2}{7}\%</math> gold. Gold is worth \$388.31 an ounce at the current market value. Samuel estimated the value of the new alloy to be \$164.38 an ounce. How many ounces of Samuel's alloy were used?</p>
<p>3. John made 14 gallons of milk containing 58% cream and 42% skim milk. Megan took out cream from the mix to make a new mixture that has 51% cream and 49% skim milk. How much cream did he take out?</p>	<p>4. Shelby has two types of iodine in her lab. She has brand 238 iodine, which costs fifty-three cents per ounce. She also has brand 691 iodine, which costs \$2.35 an ounce. How many ounces of brand 238 should she use if she has 55 ounces of brand 691 and wants to make a mixture that costs approximately \$0.77 per ounce?</p>

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**Area & Perimeter / Geometry Word Problems**

<p>1. A rectangle and a square have the same area. The length of the rectangle is forty-eight inches more than two times its width. The length of a side of the square is forty-eight inches. The side of the square is seventy-two inches less than five times the width of the rectangle. What are the dimensions of the rectangle?</p>	<p>2. A rectangle, whose perimeter is one hundred seventy-six feet, has a length that is six feet longer than its width. What is the area of the rectangle?</p>
<p>3. The width of a rectangle is <math>4 \frac{1}{6}</math> times the size of its length. The perimeter is <math>24 \frac{1}{9}</math> feet. What are its dimensions?</p>	<p>4. Austin has measured the area of a square and is comparing it with that of a rectangle. The length of the rectangle is fifty-four feet more than the length of the square. The width of the rectangle is eight feet less than fifteen times the width of the square. The area of the square is twenty-five square feet. What are the dimensions of the rectangle?</p>

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### Distance Word Problems

<p>1. Dylan drove to the beach, which is one hundred thirty-six kilometers away, at forty-eight kph. He drove home the next day at sixty kph. How many hours in total did Dylan spend driving?</p>	<p>2. Elizabeth drove to Thomas' house at 57 mph. Thomas' house is seventy-one miles away. Elizabeth arrived at Thomas' house at 4:27 p.m. What time did she leave?</p>
<p>3. Jason can run <math>7 \frac{3}{7}</math> miles in one hour. How long will it take Jason to run nine laps on the school's quarter-mile track?</p>	<p>4. Christian drove to the beach, which is one hundred twelve kilometers away, at fifty kph. He drove home the next day at sixty kph. What was his average speed for the round trip?</p>

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### Distance Word Problems

<p>1. Airlines flight H3488 from Boston to Dallas averaged a speed of 90 mph more than the return trip back to Boston. The return trip took <math>1\frac{109}{308}</math> times longer than the trip going to Dallas. The distance between Boston and Dallas is one thousand, seven hundred fifty miles. What was the average speed from Dallas to Boston?</p>	<p>2. Thomas left Miami and drove at a speed of 41 mph. Katherine left 1 hour and 28 minutes later and drove at a speed of 57 mph. How long will it take Katherine to catch up with Thomas?</p>
<p>3. Two jets leave an airport at the same time in opposite directions. The first jet is traveling at three hundred seventy-seven mph and the other at two hundred seventy-five mph. How long will it take for the jets to be 2,065 miles apart?</p>	<p>4. Kyle lives twenty-nine miles from work. During the summer, he rides his bike at six mph to the metro station. He then takes the metro to work, which travels at thirty-three mph. If he spends six minutes less on the metro than on his bike, what is the distance from the metro to his house?</p>

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### Combination/Mixture Word Problems

<p>1. Christina and Julia were running for mayor in a small town. Christina received thirty percent of the votes. Julia received four thousand, sixty votes. How many votes were cast in the town, assuming that everybody in the town voted for either Christina or Julia?</p>	<p>2. Brianna was in charge of selling tickets to the school play. Tickets were available for adults and students. Brianna reported that 192 more student tickets than adult tickets were sold. 66% of the tickets sold were student tickets. How many student tickets were sold?</p>
<p>3. Isaac earns thirty-four percent on sales of pretzels and eleven percent on sales of soda. This week, he earned \$82.58. His sales of pretzels were \$2 more than his sales of soda. How much did Isaac earn by selling pretzels?</p>	<p>4. Emma is a real estate agent. Emma just sold a house for her client, Matthew. Matthew paid Emma five percent commission on the selling price. Matthew received \$228,950 after paying the commission for the house. What was the actual selling price of the house?</p>

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**Work Word Problems**

<p>1. Savannah can paint a room in seven hours. Jordan can paint the same room in nine hours. How long does it take for both Savannah and Jordan to paint the room if they are working together?</p>	<p>2. Katherine bought two hoses. The second hose will fill up an oil tank twenty percent slower than the first. If Katherine uses both hoses to fill up an oil tank, it will take <math>16 \frac{4}{11}</math> minutes. How long will it take if Katherine only uses the second hose?</p>
<p>3. It takes Shelby 2 hours and 3 minutes to cut the grass. Abigail needs 3 hours and 46 minutes to cut the grass. If they work together, how long will it take them to cut the grass?</p>	<p>4. Megan and Julia can finish a piece of work in 15 days. Megan can do the job herself in twenty days. If Julia wanted to do the job alone, how long would it take her?</p>

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### Interest/Percent Word Problems

<p>1. Anna and Thomas each invested money in a one-year CD at Bagel Bank. The bank pays 5.15% yearly interest, compounded annually. Thomas invested six hundred dollars less than three times the amount that Anna invested. Bagel Bank will pay Anna and Thomas a total of \$381.10 in interest for the year. How much money will be in Anna's account after it matures in 1 year?</p>	<p>2. Brian has a credit card from Party Bank and another from Bagel Bank. He has a total of \$1,570 charged on his credit cards. Party Bank charges 9% simple interest per year and Bagel Bank charges 16% per year. The yearly interest charge Brian needs to pay is \$194.50. How much money does Brian owe Bagel Bank before interest charges?</p>
<p>3. Steven deposited \$4,700 into a 4-year CD at Party Bank. The CD pays 9% interest, paid semiannually. The interest is added to the balance and is accumulated with the original investment. How much will Steven have in four years?</p>	<p>4. Kaitlyn deposited \$3,600 in a 3-year CD at Arctic Bank. The CD pays 6% interest, compounded semiannually. The interest is added to the balance and is accumulated with the original investment. Kaitlyn has to pay thirty-five percent in taxes on the interest earned each year. How much in taxes will Kaitlyn have to pay on the interest earned in the first year?</p>

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### Geometry / Angle Word Problems

<p>1. The measure of an angle is eight degrees more than its complement. What are the measures of the two angles?</p>	<p>2. The measures of two angles in a supplementary triangle are in the ratio of 2:8. What is the measure of the larger angle?</p>
<p>3. The difference between the measures of an angle and its complement is sixteen degrees. What are the measures of the two angles?</p>	<p>4. The measures of two angles in a triangle are in the ratio of 2:4. The measure of the larger angle is twenty-four degrees less than three times the smaller angle. What is the measure of the larger angle?</p>

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### Geometry / Angle Word Problems

<p>1. In triangle RHC, the measure of <math>\angle C</math> is one thousand, fifty-four degrees less than six times the measure of <math>\angle R</math>. The measure of <math>\angle H</math> is six hundred seventy-six degrees less than four times the measure of <math>\angle R</math>. The measure of <math>\angle H</math> is eight degrees less than two times the measure of <math>\angle C</math>. What is the measure of each angle in triangle RHC?</p>	<p>2. In <math>\triangle SHD</math>, the ratio of <math>m\angle S</math> to <math>m\angle H</math> is 1:2. The measure of <math>\angle D</math> is thirty-six degrees more than the sum of the measures of <math>\angle S</math> and <math>\angle H</math>. What is the measure of each angle in triangle SHD?</p>
<p>3. One angle in triangle PTR is thirty-one degrees. The difference between the measures of the other two angles is sixty-three degrees. What is the measure of each angle in triangle PTR?</p>	<p>4. The measures of two angles in a triangle are in the ratio of 1:2. The third angle is <math>54^\circ</math>. What are the measures of the two angles?</p>

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**Ratio Word Problems.**

<p>1. The ratio of adult tickets to student tickets for the school play was four to five. If the sum of the adult tickets and one half of the students tickets is 260, how many adult tickets were sold?</p>	<p>2. The hourly wages of Luis and Eric are in the ratio of 17:18. Today, they each worked nine hours. Eric earned \$5.67 more than Luis for today's work. How much does Luis earn per hour?</p>
<p>3. Some money will be divided in the ratio of 1 to 3. Four times the smaller amount is five hundred ninety-five dollars less than three times the larger amount. William will receive the smaller amount and Michael will receive the larger amount. How much will William receive?</p>	<p>4. The ratio of votes for Brian to votes for Jose in an election is 13:5. There were a total of 1,530 votes. How many people voted for Jose?</p>

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### Money Word Problems

<p>1. Brianna met her friends at the coffee house and bought four cups of latte and three cups of regular coffee for a total of \$23.99. Each cup of latte costs \$0.87 more than one cup of regular coffee. How much does one cup of latte cost?</p>	<p>2. At Gabriel Gas, regular gas is \$1.11 per gallon and ultra gas is \$1.73 per gallon. If Gabriel Gas sold 76 gallons of ultra, how many gallons of regular must be sold to have an average selling price of \$1.459 per gallon?</p>
<p>3. Dylan sells \$1,000 ads for the radio station he works for. He earns \$566 per week, plus four percent commission. In the last six weeks, Dylan earned \$6,516. How many ads did he sell?</p>	<p>4. Rebecca started a new business manufacturing shirts. She had to pay \$6,000 for the equipment. Each shirt costs \$2.75 to make and will be sold at \$5. How many shirts will Rebecca need to sell to cover her initial cost of the equipment?</p>

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### General Word Problems

<p>1. Kevin played a few games of bowling. The third game he scored eighty more than the second game. The first game he scored one hundred ten less than the third game. His total score for the first two games was 208. If he wants an average score of 146, what must he score on the fourth game?</p>	<p>2. Brian and Jordan each played six games of bowling. Their total score was 1,438. Brian scored one hundred forty-two points less than Jordan. What was Brian's average score per game?</p>
<p>3. A baseball team won three more than three times the number of games lost. If the team played fifty-one games, how many games did the team lose?</p>	<p>4. On Sunday, Sierra played five games of bowling and averaged a score of 135. She played four more games on Thursday to bring her average over all the games played on Sunday and Thursday to 163. What was her average score on Thursday?</p>

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### One Person Age Word Problems

<p>1. Samantha is 8 and two-third years older than Jason. The sum of their ages is 23 years. How old is Jason?</p>	<p>2. Brian is three years older than Sydney. The sum of the ages of Brian and Sydney is seven. How old is Brian?</p>
<p>3. If Samantha were three times as old as she was five years ago, she will be sixty less than six times her current age. How old is Samantha?</p>	<p>4. Ryan was born 6 and one-fourth years after Alexander. The sum of their ages is 66 and eleven-twelfth years. How old is Alexander?</p>

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### Multi-Person Age Word Problems

1. Twenty-five years ago, Hailey was five more than one-third as old as Jason was. Today, Jason is twenty-six less than two times the age of Hailey. How old is Jason?

2. Hunter is five times as old as Rachel. Thomas is twice as old as Rachel. Rachel is twelve years younger than Thomas. How old is Hunter?

3. Kayla would be one-half as old as Nathan if Kayla were four years older. Nathan is eight less than three times as old as Kayla. How old is Nathan?

4. Isaac is nine years older than Kylie. Isaac is four times as old as Brian was three years ago. Brian is eighteen years younger than Isaac. How old is Kylie?

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### Digits Word Problems

1. The tens digit of a two-digit number is two more than the ones digit. The number is thirty more than four times the sum of the digits. What is the number?

2. The sum of the digits of a four-digit number is 22. The tens digit is two more than the ones digit. The thousands digit is two less than two times the ones digit. The ones digit is two less than three times the ones digit. What is the number?

3. If twenty-seven is added to a two-digit number, the original number will be reversed. The number is three less than four times the sum of its digits. What is the number?

4. The sum of the digits of a two-digit number is 4. The ones digit is three times the tens digit. The difference between the digits is two. What is the number?

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**Number Word Problems**

<p>1. Fifty-one more than 9 times a number is 114. What is the number?</p>	<p>2. Seven times a number is <math>31\frac{8}{9}</math>. What is the number?</p>
<p>3. 508 exceeds six times a number by 70. What is the number?</p>	<p>4. Sixty-three more than four-fifths of a number equals 111. What is the number?</p>

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### More Number Word Problems

<p>1. One number is twenty-eight more than three times another number. If each number were multiplied by four, their difference would be 232. What are the numbers?</p>	<p>2. A number is three less than four times another number. Their sum is one hundred two. What are the numbers?</p>
<p>3. If the larger of two numbers were decreased by three hundred forty-nine, then the two numbers would be the same. The sum of the two numbers is 735. What are the numbers?</p>	<p>4. The larger of two numbers is six more than six times the smaller number. The larger number is also one hundred twenty-two more than two times the smaller number. What are the numbers?</p>

