



An Air Force plane left the airport and flew west at an average speed of 200 mph. A cargo plane left some time later flying in the same direction at an average speed of 480 mph. After flying for five hours the cargo plane caught up with the Air Force plane. How long did the Air Force plane fly before the cargo plane caught up?

Consecutive Integer problems

Twice the sum of three consecutive odd integers is 150. Find the three numbers.

- FIND:** the three numbers; we'll use the variable x for one of them. Each consecutive odd integer is two more than the previous, so we will represent the 3 integers as: $x, x+2, x+4$
- FACTS:** twice the sum = 150, so we need to represent the sum of the integers, and twice that value. Sum of integers will be $x + x+2 + x + 4$ and twice that value will be $2(x + x+2 + x + 4)$
- FORMULA:** $2(x + x + 2 + x + 4) = 150$
- SOLVE:** $2(x + x + 2 + x + 4) = 150$
 - $2(3x + 6) = 150$ •Combine like terms
 - $6x + 12 = 150$ •Distribute
 - $6x + 12 - 12 = 150 - 12$ •Subtract 12 from both sides
 - $6x = 138$
 - $\frac{6x}{6} = \frac{138}{6}$ •Divide both sides by 6
 - $x = 23$
- ANSWER:** We have solved for x , but we need to supply three answers: $x = 23, x + 2 = 25, x + 4 = 27$. Check: the sum of the integers is 75; twice that is 150

When the smaller of two consecutive integers is added to four times the larger, the result is 79. Find the two integers.



Name _____ Date _____
 Algebra I Translating Words into Formulas Period _____

Directions: Write a formula that expresses each relation ship.

- The perimeter P of a square is equal to the product of 4 and the length of its side s .
- The number of adults a (in dollars) is equal to the total number of adults a , boys b , and girls g .
- A long distance car C costs \$0.20 for the connection plus \$0.10 for each minute m .
- Your weight W in 10 pounds more than 3 times last year's weight w .
- The total cost C of your groceries at a department store is equal to the sales tax T (which is 8% of the purchase) plus the cost of the groceries G and the amount that the purchase had cost of dollars.
- The area A of a trapezoid is equal to the product of one-half of the height h times the sum of the bases b and b_1 .
- The number of cookies N each of d in a class gets is equal to the total number of cookies T divided by the number of children c in the class.
- The circumference of a circle C is equal to the product of twice the radius r and π .
- The number of kids in a number camp K is equal to the number of boys B in each cabin c .
- Aly bought f flowers at a flower shop. The number of flowers N in each bouquet she bought is n and that cost her D gets an equal number of flowers.
- Carlos' salary S for the month is \$4 per hour h plus \$10 for a job extra hours e of overtime N weeks.
- The number N of people at a party at any given time is equal to the difference between the number of people who arrived A and the number of people who left L .
- The cost C of tickets for a concert is equal to the price p per ticket T plus the F .
- The total value V of money in Greg's piggy bank is equal to the number of quarters q at \$0.25 each plus the number of dimes d at \$0.10 each plus the number of nickels n at \$0.05 each plus the number of pennies p at \$0.01 each.
- A certain amount for sale says that the weight W of a metal object in grams is equal to three times the sum of a grams of compound X and y grams of compound Y .

Algebra I
 Translating Words into Formulas

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with given sum. Ten problems are provided. The concept of how to find consecutive integers with given sum. Ten problems are provided. Students will find consecutive integers with given sum. Three problems are provided, and space is included for students to copy the correct answer when given. What are consecutive integer problems? Consecutive integer problems are word problems that involve consecutive integers. Consecutive integers are integers that follow in sequence, each number being 1 more than the previous number, represented by n , $n + 1$, $n + 2$, $n + 3$, ..., where n is any integer. For example: 23, 24, 25, ... If we start with an even number and each number in the sequence is 2 more than the previous number then we will get consecutive even integers. For example: 16, 18, 20, ... If we start with an odd number and each number in the sequence is 2 more than the previous number then we will get consecutive odd integers. For example: 33, 35, 37, ... We will look at some examples of consecutive integer problems, consecutive odd integer problems and consecutive even integer problems. How to solve consecutive integer problems? Example - Consecutive Integer Problem The sum of the least and greatest of 3 consecutive integers is 60. What are the values of the 3 integers? Solution: Step 1: Assign variables - Let x = least integer $x + 1$ = middle integer $x + 2$ = greatest integer Translate sentence into an equation. Sentence: The sum of the least and greatest is 60. Rewrite sentence: $x + (x + 2) = 60$ Step 2: Solve the equation Combine like terms $2x + 2 = 60$ Isolate variable x $2x = 58$ Step 3: Check your answer $29 + 29 + 2 = 60$ The question wants all the 3 consecutive numbers: 29, 30 and 31 Answer: The 3 consecutive numbers are 29, 30 and 31. The following video shows an example of a consecutive number word problem. Example: (1) The sum of 5 consecutive integers is 200, what is the smallest of the 5 integers? (2) The sum of 7 odd integers is 217, what is the largest of the integers? How to solve "consecutive integer" word problems? Example: The sum of three consecutive integers is 24. Find the integers. Try the free Mathway calculator and problem solver below to practice various math topics. Try the given examples, or type in your own problem and check your answer with the step-by-step explanations. We welcome your feedback, comments and questions about this site or page. Please submit your feedback or enquiries via our Feedback page. Click "Show Answer" underneath the problem to see the answer. Or click the "Show Answers" button at the bottom of the page to see all the answers at once. If you need assistance with a particular problem, click the "step-by-step" link for an in depth solution. Equation: Two consecutive integers have a sum of 91. What are the two integers? Equation: The sum of two consecutive integers is 27. What are the two integers? Answer: = 13, 14 Equation: The sum of two consecutive integers is 9. What are the two integers? Answer: = 4, 5 Equation: Two consecutive even integers have a sum of 26. What are the two integers? Answer: = 12, 14 Equation: Two consecutive odd integers have a sum of 48. What are the two odd integers? Answer: = 23, 25 Equation: Two negative consecutive integers have a sum of -21. What are the integers? Answer: = -11, -10 Equation: Two negative consecutive integers have a sum of -61. What are the integers? Answer: = -31, -30 Equation: What two consecutive negative integers have a sum of -47? Answer: = -24, -23 Equation: What three consecutive negative integers have a sum of -36? Answer: = -13, -12, -11 Equation: What three consecutive even integers have a sum of -36? Answer: = -14, -12, -10

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