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Thank you for your participation! Thank you for your participation! Full PDF PackageDownload Full PDF PackageThis PaperA short summary of this paper5 Full PDFs related to this paperDownloadPDF Pack Download presentation Consecutive Integer Problems CC ALGEBRA What are Consecutive Integers? Consecutive means: NEXT BIGGEST 2, 3, 4, 5, 6, 7 -2, -1, 0 -12, -11, -10, ALGEBRA: X, X+1, X+2 What are Consecutive Integers? Consecutive EVEN means: NEXT BIGGEST EVEN INTEGER 2, 4, 6 ALGEBRA: 12, 14, 16 X, X+2, X+4 -2, 0, 2 -12, -10, -8 What are Consecutive Integers? Consecutive ODD means: NEXT BIGGEST ODD INTEGER 1, 3, 5 ALGEBRA: 11, 13, 15 X, X+2, X+4 -3, -1, 1 -15, -13, -11 Consecutive Integers Setting Up A Guess & Check Chart • Set up a column for each NUMBER in problem • The last column should be for AN EQUATION OR RELATIONSHIP • Find two consecutive integers whose sum is 95. Make a Guess & Check Chart First # Bigger # First # + Bigger # =95 Key Phrase: sum is 95 Think: Add numbers • Find two consecutive integers whose sum is 95. Make a Guess First # 40 Bigger # First # + Bigger # =95 41 40+41=81? NO Keep on Guessing..... • Find two consecutive integers whose sum is 95. Make More Guesses; Need at least 3 First # 40 45 47 Bigger # 41 46 48 First # + Bigger # =95 40+41=81? NO 45+46=91? NO 47+48=95 YES ANSWER: THE TWO NUMBERS ARE 47 AND 48 SOLVING ALGEBRAICALLY • USE GUESS & CHECK CHART TO DEFINE VARIABLES AND MAKE EQUATION! • DEFINE VARIABLES (X IS FIRST #) • MAKE EQUATION • SOLVE EQUATION • ANSWER QUESTION! • Find two consecutive integers whose sum is 95. MAKING AN ALGEBRAIC EQUATION THE FIRST # IS X !!! First # 47 X Bigger # First # + Bigger # =95 48 47+48=95 YES X+1 X+X+1=95 LET X = 1 ST INTEGER X+X+1=95 ANSWER: LET X + 1 = NEXT CONSECUTIVE INTEGER 2 X+1=95 THE TWO NUMBERS ARE 47 AND 48! 2 X=94 X=47 Find 3 consecutive even integers such that four times the first decreased by the second is 12 more than twice third. • Set up chart !!! Translate words to an Equation Start Guessing! Equation 1 st even 2 nd even 3 rd even Find 3 consecutive even integers such that four times the first decreased by the second is 12 more than twice third. Equation 1 st 2 nd 3 rd 4(1 st)-2 nd=2(3 rd)+12 even 2 4 6 8 -4=12+12 4=24 NO! 4(10)-12=2(14)+12 10 12 14 40 -12=28+12 28=40 4(20)-22=2(24)+12 20 22 24 80 -22=48+12 58=60 4(22)-24=2(26)+12 22 24 26 88 -24=52+12 64=64 Solving Algebraically 1 st 2 nd 3 rd 4(1 st)-2 nd=2(3 rd)+12 even X X+2 X+4 4 x-(x+2)=2(x+4)+12 Let x = 1 st even # 4 x-(x+2)=2(x+4)+12 Let x+2=2 nd even # 4 x-x-2=2 x+8+12 Let x + 4 = 3 rd even # 3 x-2=2 x+20 X=22 The three even numbers are 22, 24, and 26 Try One Yourself Find three consecutive even integers whose sum is -12 Remember : When working with negative numbers, the next biggest one is to the right on the number line! -6 -5 -4 -3 -2 -1 0 Find 3 consecutive even integers whose sum is -12. 1 st# Even 2 nd # Even 3 rd # Even 1 st+2 nd+3 rd=-12 -8 -6 -4 -8+6+4=-18 -6 -4 -2 -6+4+2=-12 -4 -2 0 -4+2+0=-6 The numbers are -6, -4, and -2. Find 3 consecutive even integers whose sum is -12. 1 st# Even 2 nd # Even 3 rd # Even 1 st+2 nd+3 rd=-12 x x+2 x+4 x+x+2+x+4=-12 X + 2=2 nd even 3 x+6=-12 X+4 = 3 rd even 3 x=-18 x=-6 The numbers are -6, -4, and -2. Wrapping It Up-Consecutive Integers • How do you label your • All numbers and Guess & Check chart? Equation • How do you decide which column is x? • The 1 st number • What is the most important thing to • The next consecutive number when number is to the working with negative RIGHT on number integers? line! Embed Size (px) 344 x 292429 x 357514 x 422599 x 487Text of Consecutive Integer Problems Independent Practice Worksheet - PDF fileConsecutive Integer...Name _____ Date _____ TonsoffFreeMathWorksheetsat-www.mathworksheetsland.com Consecutive Integer Problems - Independent Practice Worksheet Complete all the problems. 1. Find two consecutive even integers whose sum is 34. 2. Find three consecutive integers whose sum is 72. 3. Three consecutive integers are such that three times the smallest is 12 more than the largest. Find the integers. 4. Find four consecutive integers whose sum is 82. 5. Find three consecutive even integers whose sum is 108. 6. Find five consecutive integers whose sum is 170. 7. Three consecutive integers are such that three times the smallest is 18 more than the largest. Find the integers. 8. Find two consecutive odd integers whose sum is 96. 9. Three consecutive integers are such that three times the smallest is 22 more than the largest. Find the integers. 10. Find three consecutive odd integers whose sum is 129.

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