Name: Consecutive Integer, Coin/Stamp, Investment ** (& Mixture for Level III only) Practice quiz
1) Sally has 21 coins in nickels and dimes. Their total value is \$1.75. How many of each coin does she have?
2) Find 3 consecutive odd integers such that three times the first integer is one less than the sum
of second and third integers.
3) The club treasurer split \$2400 into two simple interest accounts. One earns 6.75% while the
other earns 9.45%. How much was deposited into each account, if the interest earned on both accounts is the same?
** Level III quiz only **

4) In order to complete her science experiment, Merrie needs 20 liters of a solution which is 25% alcohol. The only two alcohol solutions available in the school laboratory is one which is 40% alcohol and another which is 15% alcohol. How many liters of each of these two solutions must she mix together to produce the required solution?

Name:
1) Sally has 21 coins in nickels and dimes. Their total value is \$1.75. How many of each coin does she have? Let $x = \frac{1}{2} \int \frac{1}{2$
ef2 -x=#of dines. $5x+10(21-x)=175$
Sally has 7 nickels -5x +210 = 175 and 14 dimes = -30
$\frac{31}{5}$
2) Find 3 consecutive <u>odd integers</u> such that three times the first integer is <u>one less</u> than the sum of second and third integers. $3(x) = (x+2+x+4) - 1$ $2(x+2+x+4) - 1$
lef x+2=2 ^{N1} COI. $3x = 2x + 6 - 1$ The infegers lef x+4 = 3 ^{N2} COI. $3x = 2x + 5$ qre 5, 7, 9
$I_{X} = J_{S}$
3) The club treasurer split \$2400 into two simple interest accounts. One earns 6.75% while the other earns 9.45%. How much was deposited into each account, if the interest earned on both accounts is the same? (Some reans equal) Let X = ant a (a 75% of
Lef $X = amte 6.75\%$ $0675 X = .0945(2400-X)$ $26f(2400-X) = 9.45\%$ $0675 X = 226.80945X$ $1 - 0945X$
They invested # 1400 at 1 , 162x = 221. 9
** Level III quiz only ** 4) In order to complete her science experiment, Merrie needs 20 liters of a solution which is
25% alcohol. The only two alcohol solutions available in the school laboratory is one which is 40% alcohol and another which is 15% alcohol. How many liters of each of these two solutions must she mix together to produce the required solution? 1904 1905 25% 200 25% 200 25% 200
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