| Algebra I |
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| 2-7 |
| Consecutive Integer Problems |
|  |

## Consecutive - In a row <br> integer- a positive/negation whole number

Solve.
*1) The sum

$$
\begin{aligned}
\text { Let } x & =\text { smallest } 46 \\
x+1 & =\text { largest } 47 \\
x+(x+1) & =93 \\
2 x+1 & =93 \\
2 x+1-1 & =93-1 \\
\frac{2 x}{2} & =\frac{92}{2}\{46\} \\
x & =46
\end{aligned}
$$

*3) The product of four consecutive odd numbers is 2460 . Find them.

$$
\begin{gathered}
\text { Let } x=\text { smallest } \\
x+2=2^{\text {md }} \\
x+4=3^{\text {rd }} \\
x+6=\text { largest } \\
x(x+2)(x+4)(x+6)=2460
\end{gathered}
$$

* We don't know how to solve.
*4) The largest of three consecutive even integers is three times the smallest. Find them.

$x+4=3 x$ $x-x+4=3 x-x$
$\frac{4}{2}=\frac{2 x}{2}$
2-x
$\{2\}$

(solve any that ask For the sum, set up those asking for a Product.)

