

Assign each student a score for the problem below on a 10 point scale.

The sum of three odd integers is 81. Find the integers.

SOLUTION:

Let $x = 1^{\text{st}}$ odd integer

$$x+2 = 2^{\text{nd}}$$

$$x+4 = 3^{\text{rd}}$$

Then

$$x+(x+2)+(x+4) = 81$$

$$3x+6 = 81$$

$$3x = 75$$

$$x = 25$$

answer: $\boxed{25, 27, 29}$

Student A:

Score 1 Score 2

Let $x = 1^{\text{st}}$ odd integer

$$x+1 = 2^{\text{nd}}$$

$$x+2 = 3^{\text{rd}}$$

$$x+x+1+x+2 = 81$$

$$3x+3 = 81$$

$$3x = 78$$

$$x = 26$$

$\boxed{26, 27, 28}$

Student B:

Score 1 Score 2

$x = \text{odd integer}$

$$x+2 = 2^{\text{nd}}$$

$$x+4 = 3^{\text{rd}}$$

$$x+x+2+x+4 = 81$$

$$9x = 81$$

$$x = 9$$

$\boxed{9, 11, 13}$

Student C:

Score 1 Score 2

9	x 9	27	$\boxed{\begin{array}{r} 25 \\ 27 \\ 29 \\ \hline 81 \end{array}}$
11	2	29	
13	28	31	
33	43	87	