Examples of consecutive integer problems:

1) Find three consecutive integers whose sum is 87.

Let X = 1st integer
X + 1 = 2nd integer
X + 2 = 3rd integer

(28, 29, 30)

$X + X + 1 + X + 2 = 87$
$3X + 3 = 87$
$-3 \quad -3$
$3X = 84$
$\frac{3X}{3} = \frac{84}{3}$
$X = 28$

2) Find three consecutive *even* integers such that the largest is three times the smallest.

Let X = 1st even
X + 2 = 2nd even
X + 4 = 3rd even

(2, 4, 6)

$X + 4 = 3X$
$-X \quad -X$
$4 = 2X$
$\frac{4}{2} = \frac{2X}{2}$
$2 = X$

3) Four consecutive *odd* integers have a sum of 64. Find the integers.

Let X = 1st odd
X + 2 = 2nd odd
X + 4 = 3rd odd
X + 6 = 4th odd

(13, 15, 17, 19)

$X + X + 2 + X + 4 + X + 6 = 64$
$4X + 12 = 64$
$-12 \quad -12$
$4X = 52$
$\frac{4X}{4} = \frac{52}{4}$

150.

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39.

?

279.

?

162.

?

358.

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388.

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302?

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26. ?

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56. ?

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