Algebra 1 Bellwork Tuesday, Sept. 30, 2014

1. Four consecutive integers have a sum of 154. Find these numbers.

2. Three consecutive even numbers have a sum of –168. Find these numbers.

3. Four consecutive odd numbers have a sum of 536. Find these numbers.

Algebra 1 Bellwork Tuesday, Sept. 30, 2014

1. Four consecutive integers have a sum of 154. Find these numbers.

X = 1ST unknown integer

$$X + (X+1) + (X+2) + (X+3) = 154$$

$$4X + 6 = 154$$
$$-6 \quad -6$$
$$\frac{4X}{4} = \frac{148}{4}$$
$$X = 37$$

37, 38, 39, 40

2. Three consecutive even numbers have a sum of –168. Find these numbers.

X = 1ST unknown even #

$$X + (X+2) + (X+4) = -168$$

$$3X + 6 = -168$$
$$-6 \quad -6$$
$$3X = -174$$

$$\frac{3X}{3} = \frac{-174}{3}$$
$$X = -58$$

−58, −56, −54

3. Four consecutive odd numbers have a sum of 536. Find these numbers.

X = 1ST unknown odd #

$$X + (X+2) + (X+4) + (X+6) = 536$$

$$4X + 12 = 536$$
$$-12 \quad -12$$
$$\frac{4X}{4} = \frac{524}{4}$$
$$X = 131$$

131, 133, 135, 137