HW: 2.3/24-29, 56, 63

Warm up:

Write an equation to solve.

When one third of a number is decreased by 11, the result is 38. Find the number.

$$3(\frac{1}{3} \times -1) = (38) 3 \qquad 3 \times -11 = 58$$

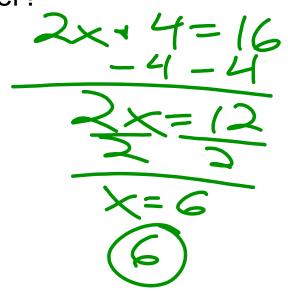
$$\times -33 = 114$$

$$+33 + 33$$

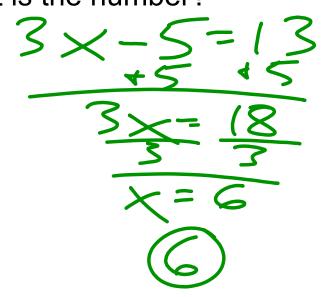
$$\times = 147$$

$$(14)$$

Four more than twice a number is 16. What is the number?



Thirteen is five less than three times a number. What is the number?



Find three consecutive integers whose sum is 78.

$$\frac{\times}{1^{5r}} + \frac{(\times + 1) + (\times + 2) = 78}{3^{rd}} = \frac{78}{40401}$$

$$\frac{3}{3} \times + \frac{3}{3} = \frac{22}{3} \times + \frac{3}{3} = \frac{3}{3} \times + \frac{3}{3}$$

Find four consecutive <u>even</u> integers who sum is 244.

$$\frac{\times + \times + 2 + \times + 4 + \times + 6 = 244}{4 \times + (2 = 244)}$$

$$\frac{4 \times + (2 = 244)}{-(2 = -12)}$$

$$\frac{4 \times = 232}{4} (58,60,62,64)$$

$$\frac{4 \times = 58}{\times = 58}$$

What about consecutive odd integers?

The sum of three consecutive odd integers is 51. Find the numbers.

$$\frac{15}{x} + \frac{15}{x+2} + \frac{15}{x+4} = 51$$

$$\frac{3x+6=51}{-6-6} = 51$$

$$\frac{15}{17,4.119}$$

HW Solutions

$$4+3(-x+6)=-11$$

$$4-3x+18=-11$$

$$-3x+22=-11$$

$$-3x=-33$$

$$-3x=-33$$

$$=-3$$

$$\frac{3 \times -(\times + 7) = 20}{3 \times -(\times + 7) = 20}$$

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 $\begin{array}{r}
(3) -3 + 4(2x - 3) - 6(3x + 4) = -3 \\
-3 + 10x - 15 - 18x - 24 = -3 \\
-8x - 42 = -3 \\
+42 + 42 \\
\hline
-8x = 39 \\
\hline
-8 - 8
\end{array}$

 $00 \times +2 -5(2x-3) + 2(4x-8)=13 \times +2 -10x + 15 + 8x - 16=13$ -x + 1 = 13 -x = 12 -x = 12 -x = -12

$$0 \frac{5 \times -1 + 7 \times = 17}{12 \times -1 = 17}$$

$$\frac{12 \times = 18}{12}$$

$$\frac{12 \times = 3}{12}$$

$$G = -1014(7x-8) = -8$$

$$-10128x-32 = -8$$

$$28x-42 = -8$$

$$+42+42$$

$$28x = 34$$

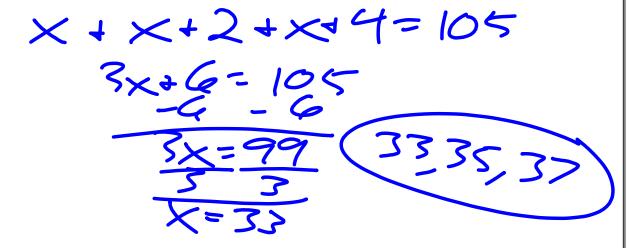
$$28x = 34$$

$$28 = 12$$

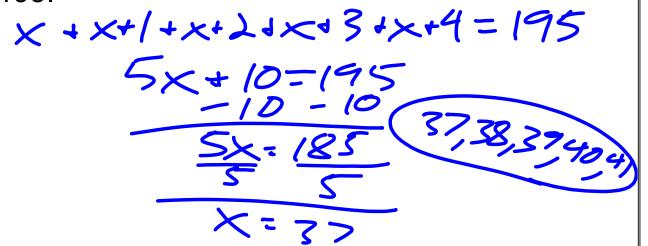
$$x = 12$$

- 1) Find three consecutive odd integers whose sum is 105.
- 2) Find five consecutive integers whose sum is 195.
- 3) The perimeter of a rectangle is 332cm and the width is 76cm. Find the length.
- 4) Burt's Burger Barn sold 495 hamburgers today. The number sold with cheese was half the number sold without cheese. How many of each kind were sold?

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 $\frac{1}{3}(\frac{1}{3}n)=(495)\frac{1}{3}(\frac{1}{3}n)=330$ $\frac{1}{3}(\frac{1}{3}n)=(495)\frac{1}{3}(\frac{1}{3}n)=330$ $\frac{1}{3}(\frac{1}{3}n)=(495)\frac{1}{3}(\frac{1}{3}n)=330$ $\frac{1}{3}(\frac{1}{3}n)=(495)\frac{1}{3}(\frac{1}{3}n)=330$ $\frac{1}{3}(\frac{1}{3}n)=(495)\frac{1}{3}(\frac{1}{3}n)=330$ $\frac{1}{3}(\frac{1}{3}n)=(495)\frac{1}{3}(\frac{1}{3}n)=330$ $\frac{1}{3}(\frac{1}{3}n)=(495)\frac{1}{3}(\frac{1}{3}n)=330$ $\frac{1}{3}(\frac{1}{3}n)=(495)\frac{1}{3}(\frac{1}{3}n)=330$ $\frac{1}{3}(\frac{1}{3}n)=(495)\frac{1}{3}(\frac{1}{3}n)=330$