Algebra 1 Bellwork Tue., October 7, 2014

1. Three integers have a sum of 141. The second integer is eleven less than three times the first. The third integer is 16 more than three times the second. Write and solve an equation to find these integers.

2. The perimeter of a rectangle is 36. The width is three more than twice the length. Write and solve an equation to find the dimensions of the rectangle.

3. Solve. $7h - 3(h+6) + 5 = 1 + 2(2h - 7)$

4. Find the exact solution. $\frac{9}{16} + \frac{5}{12}M = \frac{7}{6}$

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Answers

1. Three integers have a sum of 141. The second integer is eleven less than three times the first. The third integer is 16 more than three times the second. Write and solve an equation to find these integers.

13, 28, 100

$x + 3x-11 + 3(3x-11)+16 = 141$

$x + 3x - 11 + 9x - 33 + 16 = 141$

$13x - 28 = 141$

$13x = 169$

$x = 13$

2. The perimeter of a rectangle is 36. The width is three more than twice the length. Write and solve an equation to find the dimensions of the rectangle.

5 x 13

$P = 2L + 2w$

$36 = 2L + 2(2L+3)$

$36 = 2L + 4L + 6$

$36 = 6L + 6$

$30 = 6L$

$5 = L$

$w = 2(5) + 3$

$w = 13$

3. Solve. $7h - 3(h+6) + 5 = 1 + 2(2h - 7)$

$7h - 3h - 18 + 5 = 1 + 4h - 14$

$4h - 13 = 4h - 13$

ALL REAL #'s

4. Find the exact solution. $\left(\frac{9}{16} + \frac{5}{12}M = \frac{7}{6}\right)48$

$27 + 20M = 56$

$20M = 29$

$M = \frac{29}{20}$