November 20, 2014 4th

Starter

Simplify each expression.

1) $-5(3x-5)+2$

$= -15x + 25 + 2$

$= -15x + 27$

2) $3(1+5r)-4r$

$= 3 + 15r - 4r$

$= 11r + 3$

3) $-4+3(2x+3)$

$= -4 + 6x + 9$

$= 6x + 5$

(10) $1.53 + 0.4(m - 1.3)$

$= 1.53 + 0.4m - 0.52$

$1.3 = 0.4m + 1.01$

0.4
$.52$

(5) $-1 + (x - 3) \cdot -5$

$+1.53$
$-.52$
1.01

$= -1 - 5x + 15$

$= -5x + 14$

(12) $-1.4n + 0.5(n - 0.5)$

-1.4
$+0.5$
-0.9

$= -1.4n + 0.5n - 0.25$

$= -0.9n - 0.25$

11/20 - Factoring Out Common Factors

What are **FACTORS**?

Numbers that you times to get another number.

Numbers that divide evenly into others.

Name all the factors of the given numbers:

12

30

1 · 30
2 15
3 10
~~4~~ x
5 6

48

6
8
12
2
3
1
4 8
24
4
16

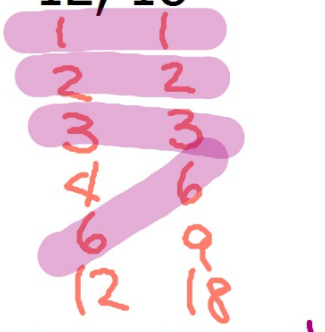
Random

What are **Common Factors**

Factors that are the same for 2 different numbers

Find the common factors of the given number pairs:

12, 18

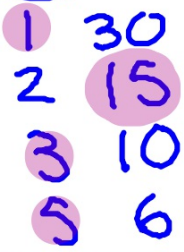


1, 2, 3, 6

24, 40

1, 2, 4, 8

30, 45



1, 3, 5, 15

"Factor out the common factor" assumes you use the LARGEST one that goes into both numbers.

Find the Greatest Common Factor (GCF) for each set of numbers:

32, 24

8

18, 27

9

48, 36

12

The biggest # that ÷'s into both

Rewrite each by factoring out the GCF.

$3b + 9$

$= 3(b+3)$

$35x + 14$

$= 7(5x+2)$

$24k - 20$

$= 4(6k-5)$

$70x + 20$

$= 10(7x+2)$

$-25a + 10$

$= -5(5a - 2)$

$-4n + 6$

$= -2(2n + 3)$

$-49x + 70$

$= -7(7x - 10)$

$-8k + 36$

$= -4(2k - 9)$

$-30n - 30$

$=-30(1n+1)$

$-6 - 3n$

$=-3n-6$

$=-3(1n+2)$

$-3(n+2)$

$5k - 8$

$=5k-8$

$60 - 54n$

$=6(10-9n)$

$=6(-9n+10)$

$60-54n$

$-54n+60$

$=-6(9n-10)$

HOMEWORK

Buff WS 4

DUE Monday

$6n - 18$

$= 6(1n - 3)$

$-4k + 12$

$-4(k - 3)$

$-8b - 6$

$= -2(4b + 3)$