

COMMON FACTORING - GCF

1) Find the GCF of:

a) 3 and 12

b) $2x^2$ and $4x$

c) $5x$ and $30x^2$

2) Factor the following

a) $3x - 42$

b) $4x^2 + 16x$

c) $3x^2 + 9x - 3$

3) Check your answers from question 2 by expanding.

4) Factor each of the following by a common factor.

a) $5x + 10$

b) $3x^2 + 15x$

c) $6x - 18$

d) $7x^2 + 14$

e) $4x^2 + 12x + 8$

f) $2x^2 - 6x - 24$

g) $-2x^2 + 6x - 12$

h) $8x^2 + 2x + 4$

5) You can also have a binomial as a GCF.

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

b) $2(3x + 4) + 7x(3x + 4)$

6) Find the dimensions of each rectangle by factoring

a)

$$A = 15x^2 - 5x$$

b)

$$A = 6x^2 + 36x$$

7) If $x = 2$ what are the actual dimensions of the rectangles above?