What are the prime factors of

$24d^2$ & $30c^2d$

Which do they have in common?

You know

$2(x+6) = 2x+12$

	$\boxed{x}$	$\boxed{3}$
5	$5x$	15

	$\boxed{x}$	$\boxed{7}$
$\boxed{5x}$	$5x^2$	$35x$

	$\boxed{x}$	$\boxed{5}$
$\boxed{-3}$	$-3x$	-15

$12x^2$	$16x$	24

Today

$2x+12 = 2(x+6)$

	$\boxed{x}$	8
$\boxed{6}$	$6x$	48

	$\boxed{x}$	$\boxed{6}$
$\boxed{2}$	$2x$	12

	r^2	$2s$	$7r$
$4r$	$4r^3$	$8rs$	$28r^2$

$3p^2q$	$-9pq$	$36pq$

Factor

$$\frac{16a}{4} + \frac{4b}{4}$$

$$4(4a+b)$$

What factors do they have in common? Divide by that factor.

$$\frac{18cd^2}{3c} + \frac{12c^2d}{3c} + \frac{9cd}{3c}$$

$$3c(6d^2 + 4cd + 3d)$$

<u>Practice</u>

$5x + 30y$

$14gh - 18h$

$15x^2y^2 + 25xy + x$

$8bc^2 + 24bc$