

Collecting like-terms

Question 1: Fundamental idea

$3x + 2x + 9x$	$7x + 4x - 3x$	$11x - 7x + 2x$	$5x + 12x + 7x - 4x$
$2x - 5x + 6x$	$3x + 2x - 7x$	$-3x + 7x$	$-2x - 4x + 10x$
$3b + 7b + 10b - 3b$	$t + t + t + t - 10t$	$9p - 9p$	$10x - 8u$

Question 2: Slightly trickier

$3x + 7y + 5y$	$2x + 5x + 7y + 11y$	$7x + 4y - 2x + 3y$	$4x + 7y + 2x - 9y$
$3x + 2c + 4x + 4d$	$x + x + 4x - x$	$3y - (-10y)$	$-5x - (-2x)$

Question 3: Even more difficult

$\frac{1}{x} + \frac{4}{x} + \frac{7}{x}$	$\frac{3}{x} + 4x^2 + 7x^2 - \frac{2}{x}$	$3xy + 2xy + x + 4x$
$7x^3 + 2x^2 + x^3$	$ab + 3ba$	$-9v + 8u - 9u - 9u - 11u$

Question 4: Inventing your own questions

For each of the following ANSWERS, invent what you consider to be

a) *an easy question*

b) *a standard question*

c) *a difficult question*

$3x$	0	$4x + 2y$	$2x - 7y$
$a + b + c$	$x^2 + y$	$a - \frac{1}{b}$	$4ab$