

## Collecting Terms

1) Simplify these expressions by collecting terms:

- a.  $3x - 10 + x$
- b.  $20 - 4a - 3 - a$
- c.  $3x - 10 + 2x + 2$
- d.  $0.5d + 8 - d$
- e.  $\frac{k}{2} + 1 + \frac{k}{4} - 2$

2) Solve these equations (this means find the value of the variable that makes them true).

Here is a worked example. Lay your working out in the same way with equals signs aligned vertically:

$$\begin{array}{r} 3x + 5 = 14 \\ 3x = 9 \\ x = 3 \end{array}$$

- a.  $4x - 7 = 13$
- b.  $11 + 2s = 21$
- c.  $b - 4 + 2b = 5$
- d.  $3x - 8 = 4x$
- e.  $6t + 7 = 14 - t$