

## Solving Two-Step Equations

<b>(a)</b>	<b>(b)</b>	<b>(c)</b>	<b>(d)</b>
Solve $3x + 1 = 16$  $x = 5$	Solve $5x + 4 = 19$  $x = 3$	Solve $2x - 3 = 11$  $x = 7$	Solve $9x - 2 = 16$  $x = 2$
<b>(e)</b>	<b>(f)</b>	<b>(g)</b>	<b>(h)</b>
Solve $5 + 2x = 17$  $x = 6$	Solve $11 + 3x = 17$  $x = 2$	Solve $2x + 5 = 1$  $x = -2$	Solve $7 + 4x = 3$  $x = -1$
<b>(i)</b>	<b>(j)</b>	<b>(k)</b>	<b>(l)</b>
Solve $5 - 2x = 13$  $x = -4$	Solve $4x - 1 = 1$  $x = \frac{1}{2}$	Ibby is solving the equation $2x - 6 = 8$  Here is his working: $2x - 6 = 8$ $2x = 8 - 6$ $2x = 2$ $x = \frac{2}{2}$ $x = 1$	Esther is solving the equation $7 - 3x = 13$  Here is her working: $7 - 3x = 13$ $3x = 13 - 7$ $3x = 6$ $x = \frac{6}{3}$ $x = 2$
<b>(m)</b>	<b>(n)</b>		
Solve $1 - 5x = 21$  $x = -4$	Solve $3 + 10x = 5$  $x = \frac{1}{5}$	What mistake has he made? Ibby should have added 8 and 6 rather than subtracted, so $2x = 14$ , and $x = 7$	What mistake has she made? Esther's 2 <sup>nd</sup> line should read $-3x = 13 - 7$ So, the answer is $x = -2$