09	1b	Solve $\frac{5x-4}{x} = 2$.	2

State Mean: **1.87/2**

$$\frac{5x-4}{x} = 2$$

Multiply both sides by x:

$$x \times \frac{5x-4}{x} = 2 \times x$$
$$5x - 4 = 2x$$
$$5x - 2x = 4$$
$$3x = 4$$
$$\frac{3x}{3} = \frac{4}{3}$$
$$x = 1\frac{1}{3}$$

* These solutions have been provided by *projectmaths* and are not supplied or endorsed by the Board of Studies

Board of Studies: Notes from the Marking Centre

Most candidates successfully adopted the simple approach of multiplying both sides of the equation by x and then solving the resulting linear equation. A more complicated attack was to instead multiply both sides of the equation by x^2 to produce a quadratic equation. Candidates could then still gain full marks by rejecting the solution $x = 0$ and correctly concluding that $x = \frac{4}{3}$.

Source: http://www.boardofstudies.nsw.edu.au/hsc_exams/