



## LINEAR EQUATIONS SINGLE-STEP QUESTIONS

## NO CALCULATOR

Ref: G241. **1E1**

<b>A1</b> Solve $x^2 = 36$	<b>A2</b> Solve $\sqrt{x} = 3$	<b>A3</b> Solve $x^3 = 27$	<b>A4</b> Solve $\frac{1}{x} = \frac{1}{3}$
<b>B1</b> Solve $\sqrt{x} = 9$	<b>B2</b> Solve $x^2 = 4$	<b>B3</b> Solve $\frac{4}{x} = \frac{4}{5}$	<b>B4</b> Solve $x^3 = 343$
<b>C1</b> Solve $\sqrt[3]{x} = 8$	<b>C2</b> Solve $\frac{1}{x} = \frac{3}{12}$	<b>C3</b> Solve $7x = 0$	<b>C4</b> Solve $\frac{3}{x} = \frac{1}{5}$
<b>D1</b> When 13 is added to $x$ , the answer is 21. Work out the value of $x$ .	<b>D2</b> When $x$ is multiplied by 8, the answer is 56. Work out the value of $x$ .	<b>D3</b> When $x$ is divided by 6, the answer is 18. Work out the value of $x$ .	<b>D4</b> When $x$ is squared, the answer is 144. Work out the value of $x$ .



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Ref: G241. **1E1**

<p><b>A1</b> Solve</p> $x^2 = 36$ $x = \sqrt{36}$ $= 6$	<p><b>A2</b> Solve</p> $\sqrt{x} = 3$ $x = 3^2$ $= 9$	<p><b>A3</b> Solve</p> $x^3 = 27$ $x = \sqrt[3]{27}$ $= 3$	<p><b>A4</b> Solve</p> <p>same</p> $\frac{1}{x} = \frac{1}{3}$ $x = 3$ <p>(Equivalent fractions)</p>
<p><b>B1</b> Solve</p> $\sqrt{x} = 9$ $x = 9^2$ $= 81$	<p><b>B2</b> Solve</p> $x^2 = 4$ $x = \sqrt{4}$ $= 2$	<p><b>B3</b> Solve</p> <p>same</p> $\frac{4}{x} = \frac{4}{5}$ $x = 5$ <p>(Equivalent fractions)</p>	<p><b>B4</b> Solve</p> $x^3 = 343$ $x = \sqrt[3]{343}$ $= 7$
<p><b>C1</b> Solve</p> $\sqrt[3]{x} = 8$ $x = 8^3$ $= 512$	<p><b>C2</b> Solve</p> <p>÷3</p> $\frac{1}{x} = \frac{3}{12}$ $x = 4$ <p>(Equivalent fractions)</p>	<p><b>C3</b> Solve</p> $7x = 0$ $x = 0$	<p><b>C4</b> Solve</p> <p>×3</p> $\frac{3}{x} = \frac{1}{5}$ $x = 15$ <p>(Equivalent fractions)</p>
<p><b>D1</b> When 13 is added to <math>x</math>, the answer is 21. Work out the value of <math>x</math>.</p> $x + 13 = 21$ $x = 8$	<p><b>D2</b> When <math>x</math> is multiplied by 8, the answer is 56. Work out the value of <math>x</math>.</p> $8x = 56$ $x = 7$	<p><b>D3</b> When <math>x</math> is divided by 6, the answer is 18. Work out the value of <math>x</math>.</p> $\frac{x}{6} = 18$ $x = 108$	<p><b>D4</b> When <math>x</math> is squared, the answer is 144. Work out the value of <math>x</math>.</p> $x^2 = 144$ $x = 12$