

Linear Equations 1 (revision from Year 7)

Starter

1. **(Review of last lesson)** The formula for the area of a trapezium, A , is given by

$$A = \frac{1}{2}(a + b)h. \text{ Find the area when } a = 4, b = 6 \text{ and } h = 3.$$

2. Match each operation with its opposite operation:

Addition	Square root	Division	Cube
Cube root	Multiplication	Subtraction	Square

3. **(Review of Y7 material)**

Evaluate:

(a)	$5 - 18$	(b)	$-4 - 17$
(c)	-9×6	(d)	$56 \div -7$

Notes

Solving an equation mean finding the value of the unknown, usually x . This requires us to get x on its own.

To transfer numbers from one side to the other do the **opposite operation**.

When giving your final answer, make sure the unknown is on the **LHS** and **positive**.

Always have the '=' sign in a column, one above the other.

E.g. 1 Solve: (a) $x + 7 = 12$ (b) $x - 6 = 14$ (c) $3x = 18$ (d) $\frac{x}{9} = 4$

Working:

(a)	$x + 7 = 12$ $x = 12 - 7$ $x = 5$	opposite operation of addition is subtraction
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(b)

(c)	$3x = 18$ $x = \frac{18}{3}$ $x = 6$	opposite operation of multiplication is division
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(d)

N.B. The middle step could be missed out in each of these questions.

Video: [Solving linear equations](#)

[Solutions to Starter and E.g.s](#)

Exercise

p14 Ex 12.3 Qu 1ace..., 2ace...,3ace..., 4, 5

Summary

To transfer numbers from one side to the other do the **opposite operation**.

When giving your final answer, make sure the unknown is on the **LHS** and **positive**.

Textbook answers (only available during a lockdown)