

Basic Equations

Week 3

Lesson Time : 20 - 25 Minutes

Course : Foundation or Higher

Grade : 4/5

Back to Basics

Core

Let's Do It!

GCSE Revision Video 11

- **Prior Checklist:** A pack of A5/A6 revision cards.

A pen.

- **Our Video Structure:**

Back to Basics: Quick re-cap.

Core: *Create* your own revision cards with exam style questions.

Let's Do It! : *Apply* your revision cards to another set of exam style questions.

Instructions: Print out this worksheet and watch the revision video simultaneously.

'Pause and Play' the video unlimited times to review your work and write the answers in the blank spaces. Once you have written your answers, check these with the tutorial answers, as explained in the video.


Create your OWN revision cards when prompted on the worksheet(Back to Basic and Core sections).

Apply your OWN revision cards when prompted on the worksheet (Let's Do It! sections).

Self Assess yourself (Out of 10) on your revision planner after you have completed the revision video .

WATCH this revision video and **MANY** others on our **FULL** courses at www.mathsmemory.co.uk

Let's get started and create our Master revision card with this suggested template.



Maths Memory

Learn-Equations with:

- Brackets
- Fractions
- Cross Multiply
- Indices

Example(s):

Topic: Basic Equations


Date/week: _____

GRADE
4/5

Step 3 $x =$

Step 2 Apply Golden Rule

Step 1 Apply Boxes



Back to Basics- starter questions to warm you up



Back to Basics

Question 1 Solve x

$$3x + 1 = 16$$

Topic: Basic Equations

Stepping Stones

Step 2 Apply **Golden Rule** x 's on the left = Numbers on the right

Step 1 Apply **Boxes** (On both x 's and Numbers)
e.g. $\underline{3x} + \underline{1} = \underline{16}$



Back to Basics

Topic: **Basic Equations**

Question 2

Solve x

$$15 = 4x + 7$$



Question 3Solve x

$$\frac{x}{5} = 6$$

Question 4Solve x

$$6x = 3$$

Question 5Solve x

$$x^2 = 25$$

Core- Create your revision cards with these exam style questions



Core 1

Topic: **Basic Equations**

Question 1

a) Solve x

$$6x + 2 = 4x + 10$$

Grade

4 (2 Marks)



Core 1

Topic: **Basic Equations**

Question 1

b) Solve x

$$3(2x - 4) = 18$$

Grade

4 (2 Marks)

Let's get our revision card and create Section A. Look at video for guidance



Question 2 Solve x

$$\text{a) } \frac{x}{3} + 2 = 6$$

Grade

4 (2 Marks)

Let's get our revision card and create Section B. Look at video for guidance



Question 2 Solve x

$$\text{b) } \frac{2x - 4}{5} = 2$$

Grade

4 (2 Marks)

Let's get our revision card and create Section C. Look at video for guidance



Core 3

Topic: **Basic Equations**

Question 3

a) Solve x

$$3(x + 1) = x - 2$$

Grade

4 (2 Marks)



Core 3

Topic: **Basic Equations**

Question 3

b) Solve x

$$2x^2 = 50$$

Grade

4 (2 Marks)



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Let's get our revision card and create Section D. Look at video for guidance

My Tool Kit	
Topic:	Grade:
(D)	



Challenge

Topic: Basic Equations

Question 4 Solve x

$$\text{a) } 11 = \frac{4x^2}{3} + 8$$

Grade

5 (3 Marks)



Challenge

Topic: Basic Equations

Question 4

b) Solve x

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

Grade

5 (3 Marks)



Let's Do It!- Apply your revision cards to another set of exam style questions



Let's Do It! Topic: **Basic Equations**

Question 1

a) Solve x

$$5x - 3 = 2x + 9$$

b) Solve x

$$3(2x - 1) = 9$$

Grade

4 (4 Marks)



Let's Do It! Topic: **Basic Equations**

Question 2

a) Solve x

$$\frac{2x}{4} + 1 = 9$$

b) Solve x

$$11 = 5 - 2x$$

Grade

4 (4 Marks)



Question 3a) Solve x

$$25 = 3x^2 - 2$$

b) Solve x

$$6(x - 3) = 2(x - 1)$$

Grade

4 (4 Marks)**Question 4**a) Solve x

$$\frac{4x - 2}{3} = \frac{6x}{4}$$

b) Solve x

$$\frac{1}{2}(2x - 3) = 2x - 1$$

Grade

5 (4 Marks)

Congratulations. You have completed this topic.

Now go back to your revision planner and rate yourself out of 10.