GCSE Boot Camp

Foundation Maths Week 1 Workbook

Questions

GCSE Boot Camp

Topics

Hello! You've made a great decision by signing up for our 8 Week Boot Camp.

Every week you'll get a practice workbook to work through a range of topics, taken from our GCSE Foundation Advanced course.

We've also included links to 2 of our expert tutorial videos on some of these exact questions. That way, if you get stuck, you can try watching one of our tutorial videos with our Maths expert Patricia. For <u>full access to all of the corresponding videos</u> sign up for a SchoolOnline subscription from £8.99 a month.

In next week's email we'll send you the answers to this workbook to download *PLUS* a brand new workbook to practice.

Week 1's workbook topics are:

- Algebra
- Ratio, Proportion and Rates of Change

GCSE Foundation Maths - Unit 1 Algebra

Algebra - Simplifying

June 2018 Foundation Calc Paper 2

20 (a) Simplify $m^3 \times m^4$

....
                                                    (1)

(b) Simplify $(5np^3)^3$

....
                                                    (2)

(c) Simplify $\dfrac{32q^9r^4}{4q^3r}$

....
                                                    (2)

(Total for Question 20 is 5 marks)

Factorising

Sample A Foundation Calc Paper 2

20 (a) Factorise $3f + 9$

....
(1)

(b) Factorise $x^2 - 2x - 15$

....
(2)

(Total for Question 20 is 3 marks)

Factorising

June 2017 Foundation Calc Paper 2

14 (a) Factorise $5 - 10m$

....
(1)

(b) Factorise fully $2a^2b + 6ab^2$

....
(2)

(Total for Question 14 is 3 marks)

Algebra

17 (a) Simplify $7x + 2y - 3x + 4y$

....
(2)

(b) Factorise $10x - 15$

....
(1)

(c) Solve $5p = 3p + 8$

$p =$ ....
(2)

(Total for Question 17 is 5 marks)

Expanding brackets

Sample A Foundation Non-Calc Paper 1

22 Expand and simplify $(m + 7)(m + 3)$

....

(Total for Question 22 is 2 marks)

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**GCSE MATHEMATICS
PAPER 1 (Non-Calculator)**

22

$(m + 7)(m + 3)$

Expand and simplify $(m + 7)(m + 3)$

Click to play!

Need some extra help? That's what we're here for!

In this video Patricia will explain how to answer the final question in the Algebra section of your workbook that looks at expanding brackets (Q22) from the Sample A Foundation Non-Calculator Paper 1.

Grab your pen and paper and remember to take notes! If you want more access to awesome videos like this, sign up for a full SchoolOnline subscription here.

NOTES

GCSE Foundation Maths - Unit 1 Ratio, Proportion and Rates of Change

Compound Interest

22 Anil wants to invest £25 000 for 3 years in a bank.

Personal Bank	Secure Bank
Compound Interest	Compound Interest
2% for each year	4.3% for the first year
	0.9% for each extra year

Which bank will give Anil the most interest at the end of 3 years?
You must show all your working.

(Total for Question 22 is 3 marks)

Percentage Increase

20 Azmol is paid £1500 per month.
He is going to get a 3% increase in the amount of money he is paid.

Work out how much money Azmol will be paid per month after the increase.

£..

(Total for Question 20 is 2 marks)

Distance, Speed, Time

Sample B Foundation Calc Paper 2

16 A sprinter runs a distance of 200 metres in 25 seconds.

Work out the average speed of the sprinter.

....m/s

(Total for Question 16 is 1 mark)

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Click to play!

Need some extra help? That's what we're here for!

In this video Patricia will explain how to answer the final question in the Ratio, proportion and rates of change section on Distance, Speed and Time (Q16).

Grab your pen and paper and remember to take notes! If you want more access to awesome videos like this, **sign up for a full SchoolOnline subscription here.**

NOTES