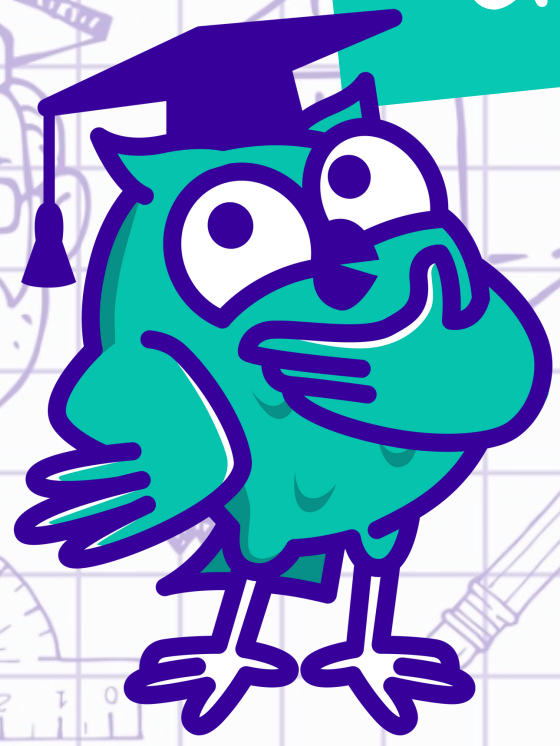
KS2 Study Club

Maths Week 10 Workbook

Questions



GCSE Boot Camp

Topics

Congratulations, you've made it to the final week of your 10 Week Study Club!

You've worked hard over 9 weeks on a range of different topics in your weekly Maths workbooks. Is there a topic you now feel more confident about that you were unsure of before? Write it down here to remind yourself of how far you've come!

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This week you have questions in your workbook on a range of topics that we've covered together throughout your boot camp. Plus this workbook also features some extra topics to challenge your knowledge.

Why not try sitting this workbook like a mini exam paper and track your progress. Set a timer, sit in a quiet room with no distractions or answers close by and make sure you only use a calculator on questions that are on the calculator paper.

Next week we'll send you the answers to this week's workbook and 2 expert video tutorials so you can mark your mini exam paper. Don't forget that for full access to all of the corresponding videos in this workbook sign up for a SchoolOnline subscription from £8.99 a month.

This week's workbook includes questions on:

- Word problems
- Coordinates
- Fractions
- Algebra
- Estimation

SMARTER LEARNING BETTER GRADES

Unit 10 KS2 Study Club

Word Problem

2019 Paper 2 Reasoning

19 A machine pours 250 millilitres of juice every 4 seconds.

How many **litres** of juice does the machine pour every **minute**?

Show your method

litres

2 marks

Gram & Kilogram - Problem

2018 Paper 3 Reasoning

13 A box contains 2.6 kg of washing powder.

Jack uses 65 grams of powder for each wash.

He uses all the powder.

How many washes did Jack do?

Show your method

washes

2 marks

School Timetable

2017 Paper 3 Reasoning

9 Here is the morning timetable for Chen's class this week.

Time	Mon	Tue	Wed	Thu	Fri
9:00 am–10:30 am	Maths	English	Maths	English	Maths
10:30 am–11:00 am	Break	Break	Break	Break	Break
11:00 am–12:00 pm	English	Maths	Science	Maths	English

What is the **total** number of hours for **English** on this timetable?

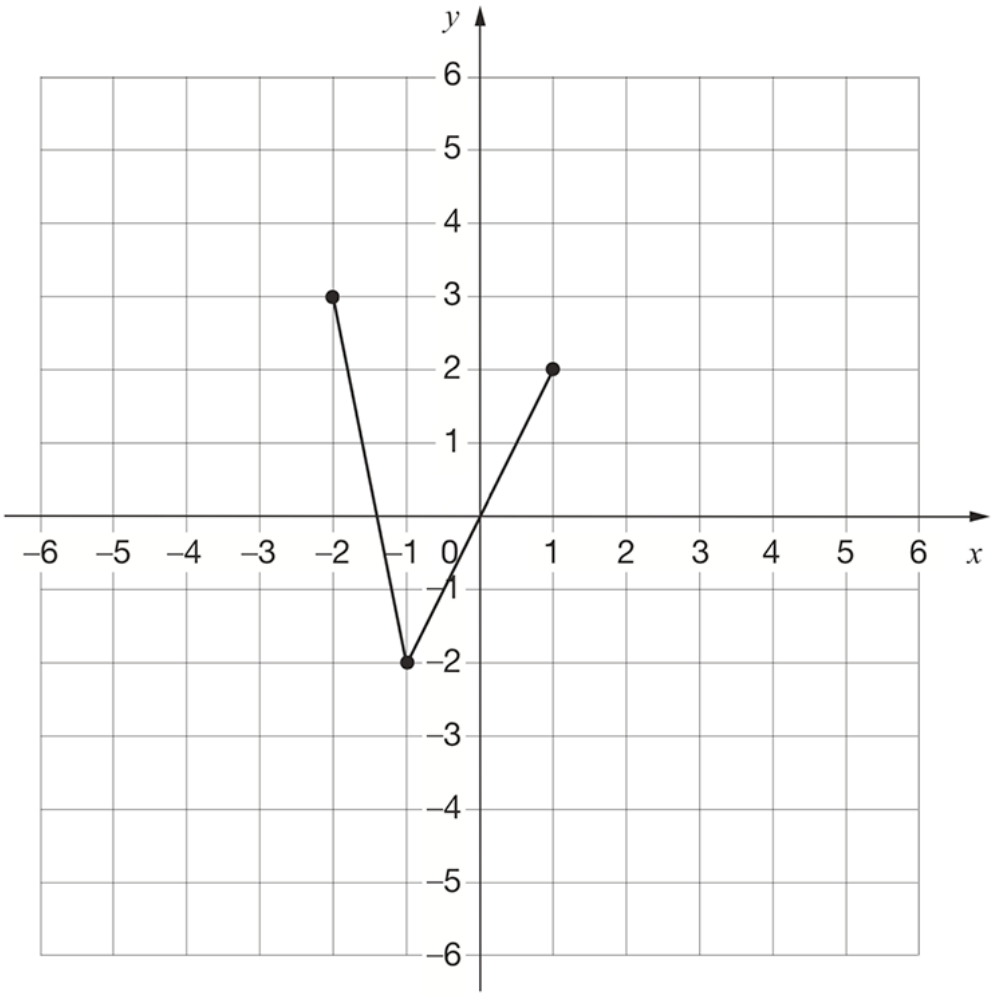
hours

1 mark

Coordinates

2019 Paper 3 Reasoning

10 On the grid there are three points joined by two lines.



Lara plots **another point** on the grid at **(–1, 2)**.

She joins the points to make a quadrilateral.

Complete Lara's quadrilateral on the grid.
Use a ruler.

1 mark

Then Lara translates the quadrilateral **4 squares to the right**.

Draw the quadrilateral in its new position on the grid.

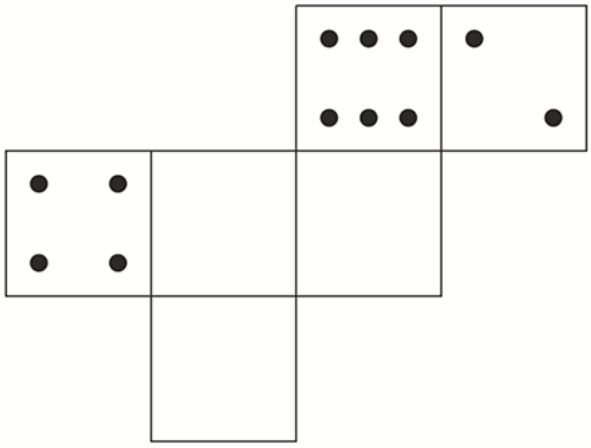
1 mark

Dice - Problem

2018 Paper 3 Reasoning

17 On a dice, the sum of the dots on opposite faces is always 7

Draw dots on the three empty faces of the net so that it could fold up to make a dice.



1 mark

Sequence

2018 Paper 2 Reasoning

6 The numbers in this sequence **decrease** by the same amount each time.

303,604 302,604 301,604 300,604 ...

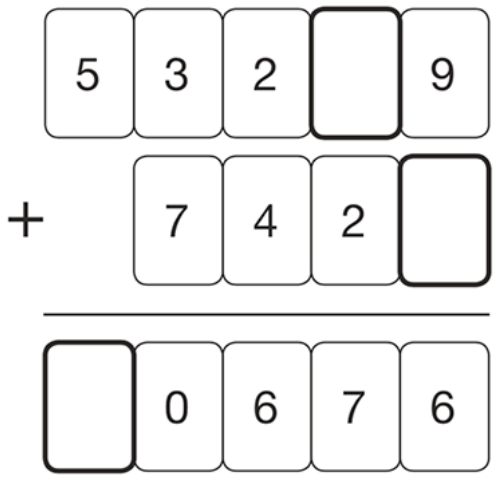
What is the next number in the sequence?

1 mark

Missing Digits

2018 Paper 3 Reasoning

4 Write the three missing digits to make this **addition** correct.



2 marks

Fractions, Decimals and Percentages

2019 Paper 1 Arithmetic

19 $7 - 2.25 =$

1 mark

Finding Missing Numbers

2019 Paper 2 Reasoning

6 Write the missing number to make this **division** correct.

$0.3 \div \square = 0.03$

1 mark

Estimation

2018 Paper 2 Reasoning

19 Layla wants to estimate the answer to this calculation.

$$3\frac{9}{10} - 2\frac{1}{8} + 1\frac{4}{5}$$

Tick the calculation below that is the best estimate.

Tick **one**.

- $3 - 2 + 2$ ☐
- $4 - 2 + 1$ ☐
- $4 - 2 + 2$ ☐
- $3 - 2 + 1$ ☐

1 mark

Ordering Fractions

2018 Paper 2 Reasoning

14 $\frac{6}{5}$ $\frac{3}{5}$ $\frac{3}{4}$

Write these fractions in order, starting with the **smallest**.

☐ ☐ ☐

smallest

1 mark

Inequality

2019 Paper 2 Reasoning

12 Here are three symbols.

$<$ $>$ $=$

Write one symbol in each box to make the statements correct.

$\frac{7}{10}$ ☐ 0.07

$\frac{23}{1000}$ ☐ 0.23

1 mark

> = < symbols

2018 Paper 2 Reasoning

10

>	=	<

Write the correct symbol in each box to make the statements correct.

11×12 ☐ 15×10

$90 \div 30$ ☐ $60 \div 20$

$120 \div 4$ ☐ $160 \div 8$

30×8 ☐ 100×10

2 marks

Number Sequences

2019 Paper 2 Reasoning

8 In this sequence, the rule to get the next number is

Multiply by 2, and then add 3

Write the missing numbers.

	25	53	

1 mark

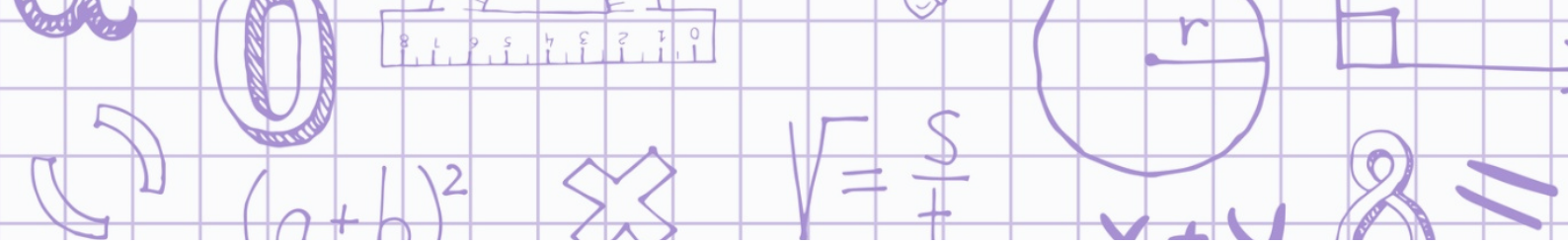
1 mark

Multiplication - Fractions

2017 Paper 1 Arithmetic

15 $\frac{4}{6} \times \frac{3}{5} =$

1 mark



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