



THIRD SPACE  
LEARNING

# Mathematics

## Paper 3

### (Calculator)

## Foundation Tier

Edexcel GCSE

SET 5

# Mathematics Paper 3 (Calculator) Foundation Tier Edexcel

## GCSE SET 5

Name

Total marks

Paper length: 1hr 30mins



### Instructions

- Use black ink or ball-point pen.
- Fill in the boxes at the top of this page with your name, centre number and candidate number.
- Answer all questions.
- Answer the questions in the spaces provided – there may be more space than you need.
- You must show all your working.
- Diagrams are NOT accurately drawn, unless otherwise indicated.
- Calculators may be used.

### Information

- The total mark for this paper is 80
- The marks for each question are shown in brackets – use this as a guide as to how much time to spend on each question.

### Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

Question	Mark
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	

**You must have:** Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser. Tracing paper may be used.

This practice paper is based on the topics from the **advanced information for the November 2026 exam series**.

*Please note, this practice paper is an example to help revision, these topics can be tested in other ways and other topics may be included in the actual papers*

**1** Write down the value of the 3 in the number 54.32

-----  
**(Total for Question 1 is 1 mark)**

---

**2** Write down two factors of 21

-----  
**(Total for Question 2 is 1 mark)**

---

**3** Write 62% as a decimal.

-----  
**(Total for Question 3 is 1 mark)**

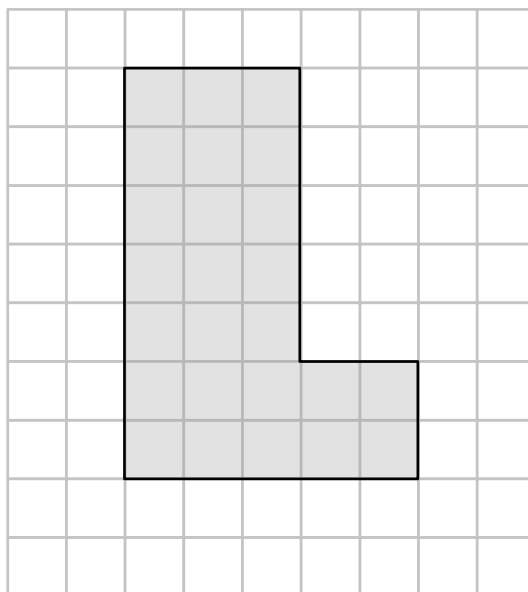
---

**4** What is the time 3 hours and 15 minutes after 8.35am?

-----  
am  
**(Total for Question 4 is 1 mark)**

---

**5** The diagram shows a shape on a grid

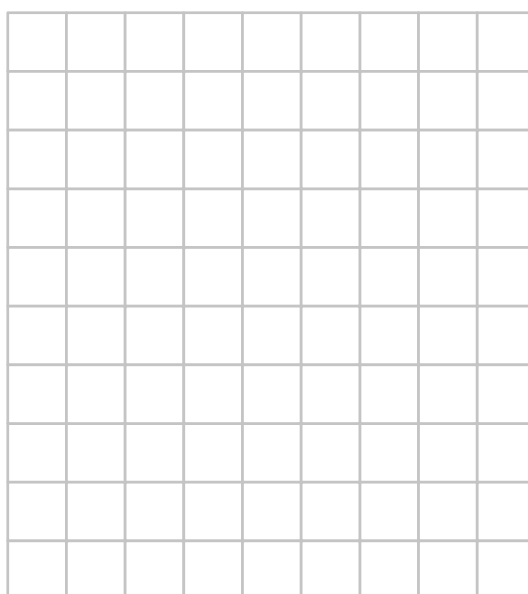


**(a)** Find the area of the shape

cm<sup>2</sup>

**(1)**

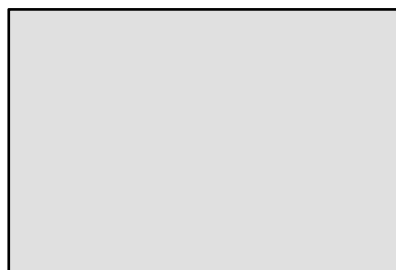
**(b)** On the grid below, draw a rectangle that has a perimeter that is the same as the perimeter of the shape above.



**(2)**

**(Total for Question 5 is 3 marks)**

- 6 This scale drawing shows a pond.



Scale 1cm  
to 80cm

Work out the actual length and width of the pond.

Length ..... cm

Width ..... cm

**(Total for Question 6 is 4 marks)**

- 7 Christopher has 4 children.

Christopher makes each of his children a packed lunch each day, and each child gets an apple.

Christopher can buy apples in packs of 6 for 99p or individually for 18p each.

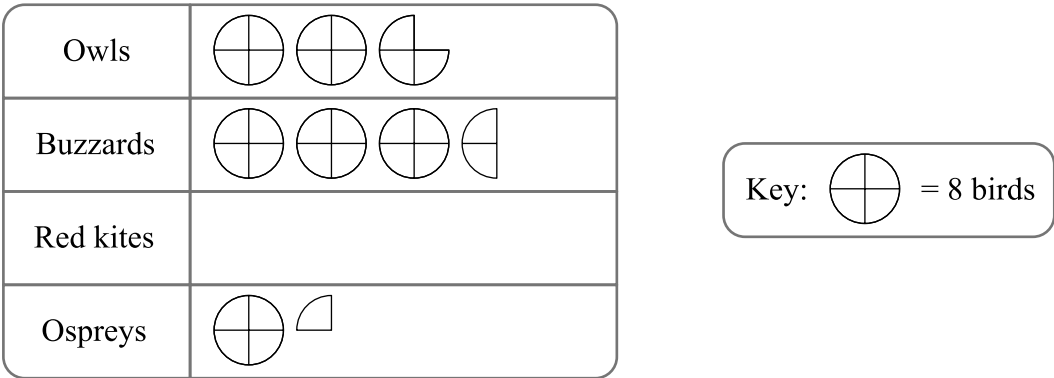
Christopher wants to buy enough apples for 5 days.

Is it cheaper for Christopher to buy packs of apples or individual apples?

Show how you decide.

.....  
**(Total for Question 7 is 4 marks)**

8 The pictogram shows information about the number of birds of prey at a bird of prey centre



(a) There are 24 red kites at the centre.  
Complete the pictogram.

(1)

(b) Write the ratio of the number of owls to the number of buzzards in its simplest form.

----- ; -----  
(2)

(c) What fraction of the birds are ospreys?

-----  
(2)  
**(Total for Question 8 is 5 marks)**

**9** Write down the mathematical name of a quadrilateral which has:

- Rotational symmetry order 2
- No lines of symmetry.

-----  
**(Total for Question 9 is 1 mark)**

---

**10 (a)** Write down a fraction equivalent to  $\frac{1}{12}$

-----  
**(1)**

**(b)** Find a fraction that is greater than  $\frac{1}{12}$  and less than  $\frac{2}{12}$

-----  
**(1)**

**(Total for Question 10 is 2 marks)**

---

- 11** Annie and Rebecca want to work out  $4 + a^2$  when  $a = -3$

Annie writes:

$$\begin{aligned} 4 + -3^2 &= 1^2 \\ &= 1 \end{aligned}$$

Rebecca writes:

$$\begin{aligned} 4 + (-3)^2 &= 4 + -9 \\ &= -5 \end{aligned}$$

Annie and Rebecca are both incorrect.

- (a)** Explain the mistakes they have each made.

Annie

---

---

---

Rebecca

---

---

---

**(2)**

- (b)** Work out the correct answer to  $4 + a^2$  when  $a = -3$

**(1)**

**(Total for Question 11 is 3 marks)**



**12 (a)** Solve  $4(3x - 2) = 52$

$x =$  \_\_\_\_\_  
(2)

**(b)** Solve  $\frac{4y + 1}{11} = 2$

$y =$  \_\_\_\_\_  
(2)

**(Total for Question 12 is 4 marks)**

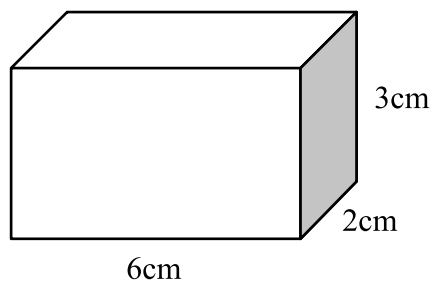
---

**13** Write 40 hours as a fraction of 1 week.  
Give your answer in its simplest form.

-----  
**(Total for Question 13 is 2 marks)**

---

**14** Here is a cuboid.



Work out the volume of the cuboid.

-----  $\text{cm}^3$

**(Total for Question 14 is 2 marks)**

**15** Printer A prints 12 pages per 20 seconds.

Printer B prints 11 pages per 15 seconds.

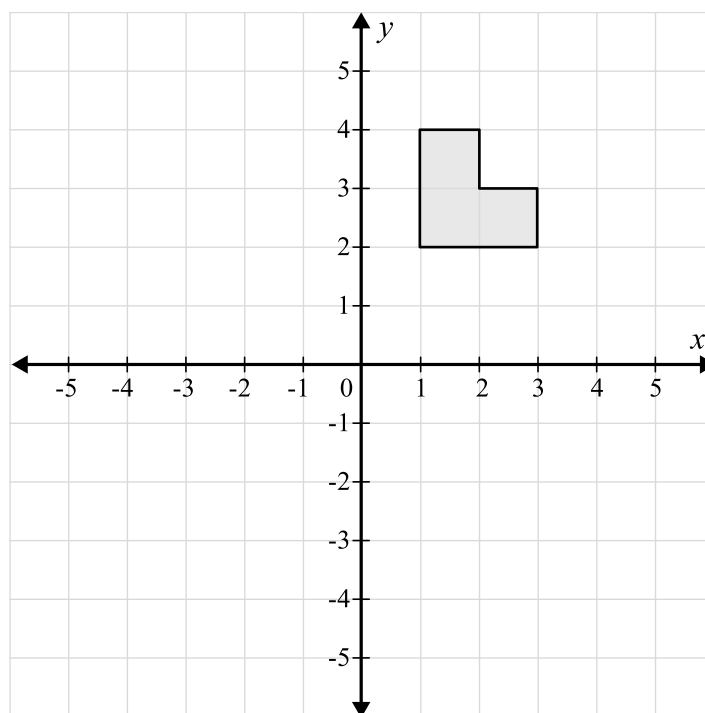
Printer A prints continuously for 8 minutes.

Printer B prints continuously for 10 minutes.

How many pages do the printers print altogether?

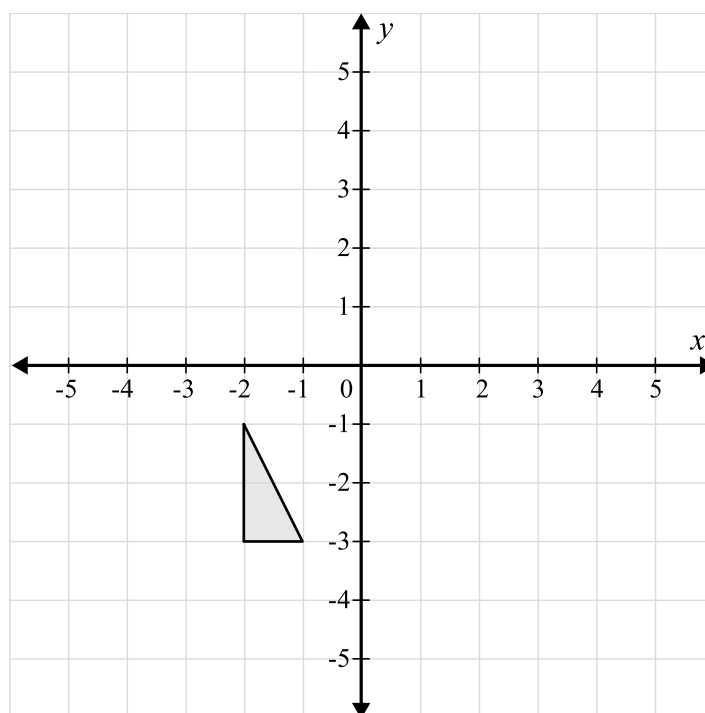
-----  
**(Total for Question 15 is 4 marks)**

16



(a) On the grid above, rotate the shaded shape  $90^\circ$  clockwise about the point  $(0, 1)$

(2)



(b) On the grid above, enlarge the shaded shape by scale factor 3 from centre  $(-4, -4)$

(2)

**(Total for Question 16 is 4 marks)**

**17** Bobby has £350 000. He wants to purchase a house.

When Bobby purchases a house, he will need to pay legal fees of £2000 as well as stamp duty tax at the following rates:

The first £120000 of the property price	No stamp duty
The second £125000 (£125000 – £250000)	2%
Anything above £250000	5%

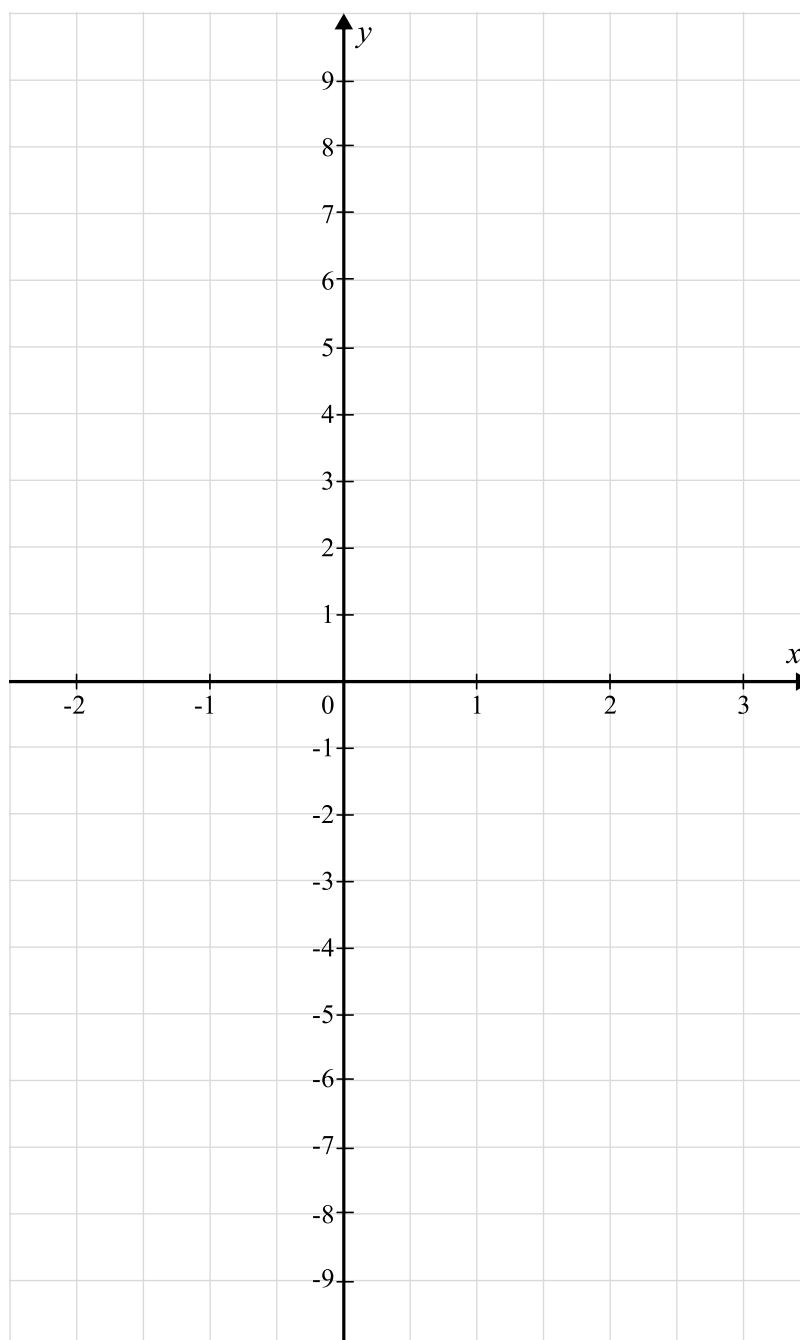
Bobby decides he wants to buy a house for £330 000.

Can Bobby afford to buy the house and pay the fees and stamp duty?

Show how you decide.

-----  
**(Total for Question 17 is 4 marks)**

**18** On the grid below, draw the graph  $y = 2x - 4$  for  $x$  from  $-2$  to  $4$



**(Total for Question 18 is 3 marks)**

**19** A school is going to put on exam revision sessions.

There are 220 pupils in Year 11.

The school asks a sample of 40 Year 11 pupils which subjects they would most like revision sessions for.

Each pupil chooses one subject.

Here are the results of the survey.

Maths	16
English	12
Science	7
French	5

**(a)** Work out an estimate for the number of the 220 pupils who choose maths.

-----

**(2)**

**(b)** State one assumption you made in part **(a)**.

-----

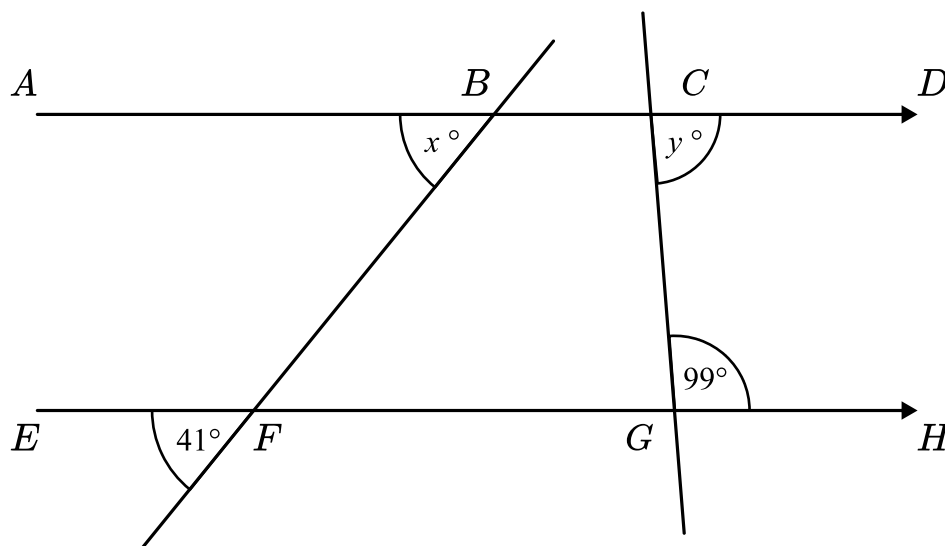
-----

-----

**(1)**

**(Total for Question 19 is 3 marks)**

20



**(a)** Write down the size of angle  $x$

Give a reason for your answer

$x =$  \_\_\_\_\_ because \_\_\_\_\_

(2)

**(b)** Mike says  $y = 99^\circ$

Is Mike correct? Explain your answer.

(2)

**(Total for Question 20 is 4 marks)**

**21 (a)** Simplify  $q^7 \times q^5$

-----  
**(1)**

**(b)** Simplify  $\frac{8p^9}{4p^2}$

-----  
**(2)**

**(c)** Write down the value of  $a$  and  $b$  if  $(2m^a)^3 = bm^{12}$

$a =$  -----

$b =$  -----

**(2)**

**(Total for Question 21 is 5 marks)**



**22 (a)** Ben is a hockey goalkeeper.

The probability that Ben saves a goal is 0.7

What is the probability that Ben does not save a goal?

-----  
(1)

**(b)** In one hockey season, there are 200 shots at the goal.

Work out an estimate for the number of goals Ben will save.

-----  
(1)

**(Total for Question 22 is 2 marks)**

---

**23 (a)** Write 0.000 034 in standard form.

-----  
(1)

**(b)** Write  $2.71 \times 10^4$  as an ordinary number.

-----  
(1)

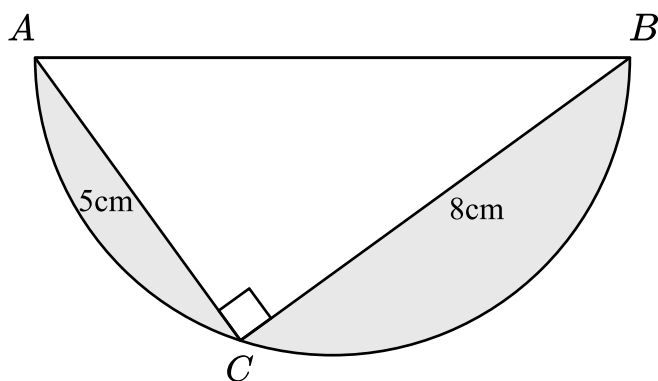
**(c)** Write the fraction  $\frac{3 \times 10^8}{4.5 \times 10^9}$  in its simplest form.

-----  
(1)

**(Total for Question 23 is 3 marks)**

---

**24** Here is a right angled triangle inside a semi-circle.



**(a)** Work out the length  $AB$ .

Give your answer to 2 decimal places.

----- cm  
(2)

**(b)** Work out the shaded area.

Give your answer to 2 decimal places.

-----  $\text{cm}^2$   
(4)

**(Total for Question 24 is 6 marks)**

**25** The mean of three numbers is 120

The three numbers are  $3a$ ,  $5a + 2$  and  $2a + 8$

Work out the value of the smallest number.

-----  
(Total for Question 25 is 4 marks)

**26** Place the correct symbol to make the statement true.

Choose from

=

<

>

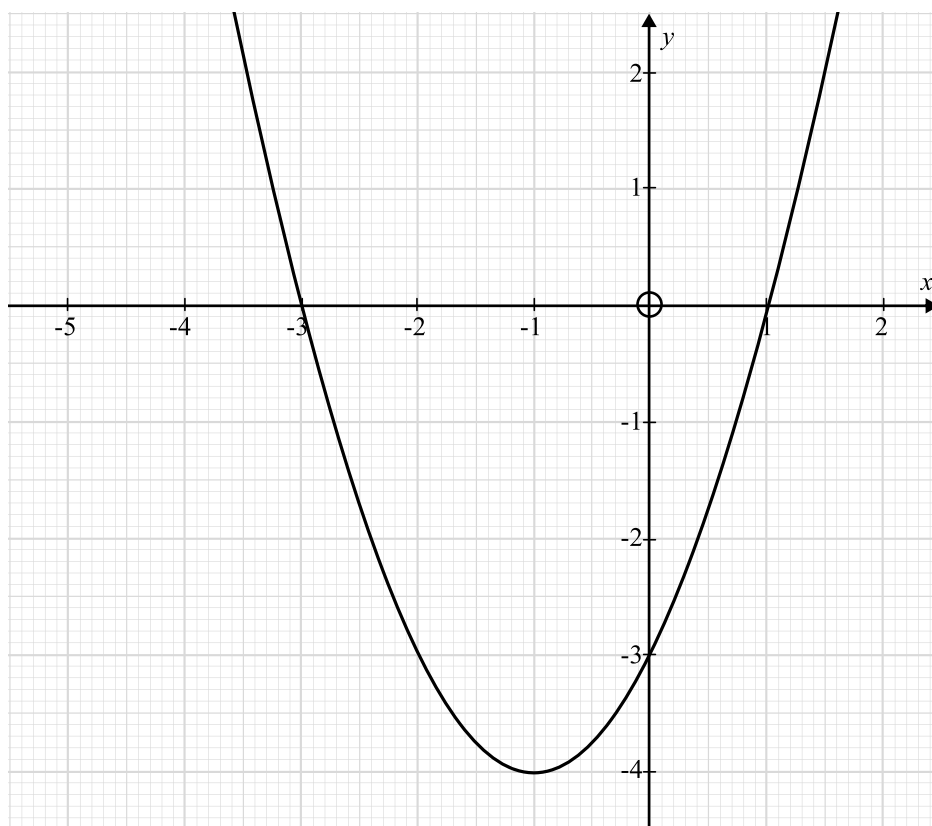
$$\frac{3}{11}$$

.....

$$0.27$$

(Total for Question 26 is 1 mark)

27 Here is the graph of  $y = x^2 + 2x - 3$



(a) Write down the coordinates of the turning point on the graph of  $y = x^2 + 2x - 3$

-----  
(1)

(b) Use your graph to find the solutions to  $x^2 + 2x - 3 = -3$

-----  
(2)


(Total for Question 27 is 3 marks)

# Looking to improve your school's maths results without stretching your budget?

Tutoring from our spoken AI maths tutor Skye gives schools an even more affordable option for every pupil.

- ✓ 90% cheaper than other tutoring providers
- ✓ Curriculum-aligned lessons designed by qualified teachers
- ✓ Discounts available for long-term bookings and MATs

 [thirdspacelearning.com](https://thirdspacelearning.com)

 0203 771 0095

 [hello@thirdspacelearning.com](mailto:hello@thirdspacelearning.com)

## Where to go next?

For more GCSE maths revision resources and worksheets, visit the Third Space Learning [GCSE maths revision](#) pages. Or scan the QR code to discover our library of FREE GCSE maths revision resources:

