Year 10 Summer Pack

Maths Support Booklet

Foundation

Name:						
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This booklet is designed to support your learning over the summer period to help support you to be in the best possible position for your exams in 2023. We all know that eating 5 portions of fruit and veg a day is good for us; well so is completing maths questions on a regular basis through the Corbett-Maths 5 a Day Booklet.

How to use this booklet:

You have been issued with a paper copy. We recommend that you complete 50% of the booklet by the time we return in September. While the summer break is a time for rest and relaxation, we recognise that some students enjoy having something to work on. For those who are currently not where they want to be, this is the perfect opportunity to close that gap ready for September.

You are encouraged to do one page every day in August, but of course you can choose to do more or less if you wish. Once you have completed a page, use the web link or QR Code below to check your answers. You may find the first few days more challenging, but the skills are repeated throughout the booklet so you will find similar questions later on, giving you more opportunities to practise and improve.

Please hand your booklet in to your Maths teacher in September

Link to Answers:

https://corbettmaths.com/2016/10/26/august-answers/



Corbettmouths
hours mins

2nd August Numerac	y 5-a-day
Write 600,000 in words	Corbettmαths Write four thousand and twelve in figures
8 10 12 16	George picks two different numbers from the list. He divides one number by the other.
What is the largest answer he can make?	What is the smallest answer he can make?
Leo has £51 Max has £18 less than Leo. How much money do they have in total?	
Work out the perimeter of this shape.	6cm 11cm 3cm 10cm

3rd August Numer	acy 5-a-day
What fraction of this diagram is shaded?	Corbettmaths
Find the number halfway between 20 and 32.	
	Andrew completes 5 laps.
	How far has he run?
The distance around the running track is 400m.	
Uma completes 15 laps.	Carly runs 5600m.
How far has she run?	How many laps has she run?
763 x 10	84 x 100
3.8 x 10	0.13 x 100

4th August Numerac	y 5-a-day
Jenny has 20 sweets.	Corbettmaths
$\frac{1}{4}$ of the sweets are blue.	
How many sweets are blue?	
15 26 35 37 40 54 60 72	Two numbers with a difference of 32
From the list write down: Two numbers with a sum of 50	
Two numbers with a sum of 50	
Four tickets for a trip cost a total of £172.	
Work out the cost of one ticket.	
A film is shown in a cinema.	How long does the film last?
START 14:50	
FINISH 16:25	
Beach Hotel	How far is it from the beach to the
450m 200m	hotel?
→	
Michael sees this sign while walking	

5th August Numerac	y 5-a-day
Dominik has three 50p's and three 20p's.	Corbettmaths
How much money does he have?	
28 + 73	93 – 25
5 x 19	240 ÷ 20
	How many lines of symmetry does the sign have?
There are 700 Lego bricks in a box. Vicky and Conor take 80 bricks each. Mollie, Taylor and Jayde share the rest of the bricks equally.	
How many Lego bricks does Mollie get?	

6th August

Numeracy 5-a-day



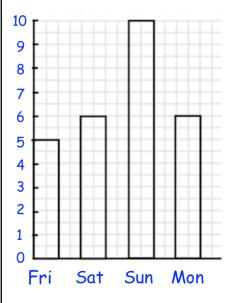
$$6 \times 6 =$$

$$5 \times 9 =$$

$$12 \times 11 =$$

The bar chart below shows how many telephone calls Daisy made over 4 days.

On which two days did Daisy make the same number of telephone calls?



How many telephone calls did Daisy make altogether?

Here is a function machine

Work out the output, when the input is 24.

Work out the input, when the output is 3.

7th August	Numeracy 5-a-day
Write 20% as a fraction	Corbettmaths
Work out 9.8 – 1.53	
	Leah picks a card at random. What is the probability that the card has a circle on it?
In a theatre, there are 20 rows In each row there are 12 seats During a show, there are 8 seathermore How many people went to the show?	ts empty.
Draw the net of a cuboid.	

8th August Nu	meracy 5-a-day	_ (A)
Take 24 away from 241	Add 493 and 384	Corbettmaths
The numbers in this sequence increase by the same amount eatime. 12 17 22	Write the missing number	ers
Simplify the ratio 6:15		
Martin has £1.30 Harry has 80p How much money should Martigive Harry, so that they have the same amount of money?		
Adnan scored 9 out of 10 in a company what percentage of the question did Adnan answer correctly?		

9th August N	umeracy 5-a-day	
Round 148 to the nearest 10	Round 148 to the nearest 10	orbettmαths 00
Write down the square root of	49	
Write $\frac{3}{50}$ as a percentage	Write 18% as a fraction.	
Shade 80% of this shape		
Jay has £3.65 in 5 pence pie	ces	
How many coins does he have	e?	

10th August	Numeracy 5	-a-day	
Add together			Corbettmaths
- The number of days in Ma - The number of hours in a - The number of sides a dec has.	day		
Draw a 30 degree angle.			
A chair costs £17			
How much will 6 chairs cost	t?		
2 birthday cards at £2.7 1 toy at £6.5 1 book at £5.7	50 each		
Work out the total cost.			
Oliver is paid £300 a week. Each week he saves two-fif his pay.	ths of		
How much does he save ea week?	ach		

11th August Numeracy	y 5-a-day
Draw a right angle	Corbettmαths Draw and label a reflex angle
Write 190,080 in words.	
What fraction of the grid is shaded?	
N ↑ V S	Demi is facing South. She turns clockwise through 270 degrees. Which direction is she now facing?
A greengrocer sold: 10 apples 6 bananas 8 oranges 5 lemons Draw a pictogram to represent this	

12th August Numeracy					acy 5-a-day
Round 2	72 to t	he nea	arest 10)	Round 272 to the nearest 100
Country	Gold	Silver	Bronze	Total	Which country won the most bronze
Spain	7	4	6	17	medals?
France	10	18	14	42	
Germany	17	10	15	42	
Italy	8	12	8	28	
Japan	12	8	21	41	
Australia	8	11	10	29	
Find the size of y.					58° Y
The rule for continuing a sequence is Multiply by 4 then Subtract 3				ence is	The first term is 10. Work out the second term

13th August Numerac	y 5-a-day
Annie bought five DVDs at a cost of £10 each. How much did Annie spend on the five DVDs?	Corbettmaths She sold the DVDs for £68 How much profit did she make?
	This is a centimetre grid.
	Draw a square with perimeter 12cm
A small bottle of fizzy drink contains 500ml	
A large bottle contains 2 litres. How much more does the large bottle contain?	
Circle the fractions that are equivalent to $\frac{2}{3}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Draw a shape with two lines of symmetry.	

14th August Numerac	y 5-a-day
Name this solid	Sketch a cube Corbettmaths
Liet the divet Convey and a very	Liet the first C subscripts are
List the first 5 square numbers	List the first 5 cube numbers
A red apple cost 27p A green apple cost 28p	
Chloe wants buys two red apples and two green apples.	
She has £1. Is that enough?	
Draw a shape with one line of symmetry.	
Find the product of 277 and 52	

Corbettm α ths $r^2 + 12^2$
$1^2 + 12^2$
hat time must she start cooking

16th August Numerac	y 5-a-day
What number is the arrow pointing to?	Corbettmaths 80 100
Here is a list of 8 numbers. 15 16 18 19 20 22 24 27	From the list, write down a prime number.
From the list, write down a factor of 32.	From the list, write down a multiple of 9, which is odd.
Find the product of 173 and 28	
Find the perimeter of the shape shown.	12m 5m 8m 6m

17th August Numerac	y 5-a-day
Write 23,050 in words	Corbettmαths Write twenty thousand and one in figures
Fill in the gaps in these number patterns: 37 32 27	1 4 9
Express 50p as a fraction of £3 Give your answer in its simplest form.	
y	Write down the coordinates of point A
	A, B, C and D are the vertices of a rectangle. Write the coordinates of point D

18th August	Numerac	ey 5-a-day
_	oox of cakes for £1.25 ith exactly four coins.	Corbettmaths
List the four co	ins.	
Work out 9.1 – 1.62		
Convert 3 kilograms into grams		Convert 2 litres into millilitres
64 41	34 19 78	From the numbers in the grid, write down two numbers with a
25 18 24 70 56		sum of 90
From the numbers in the grid, write down two numbers with a difference of 30.		From the numbers in the grid, write down two numbers with a product of 475

19th August Numerac	y 5-a-day
Take 34 away from 141	Add 49 and 384 Corbettmαths
Declan buys a pizza. He pays with a £10 note. He receives £2.41 change.	How much did the pizza cost?
Work out 10% of 60	Work out 50% of 11
Ben is organising a raffle. He has 100 tickets. He sells each ticket for 50p. The cost of organising the raffle, including prizes, is £15.	Ben sells all his tickets. How much profit does he make?
Convert 5 kilometres into metres	Convert 8 metres into centimetres

20th August Numerac	y 5-a-day
Work out 45 + 20 + 15	Work out 100 – 30 – 15 Corbettmαths
Round 348 to the nearest 10	Round 348 to the nearest 100
Cook for 15 minutes at 230°C. Reduce the oven temperature to 160°C. Then cook for 40 minutes per kilogram.	How long does it take to cook a 7kg turkey?
On the grid, draw an isosceles triangle.	
12cm 3cm	Work out the perimeter of the rectangle

21st August	Numeracy 5-a-day
What fraction of the grid is sha	Corbettmαths
What are the next 2 terms?	What are the next 2 terms?
8 15 22	7 6.5 6 5.5
Write one million in figures.	
List all the factors of 14 that all factors of 21.	e also
	Write down the number of faces
Shown is a triangular prism	Write down the number of edges

22nd August Numeracy 5-a-day	
	Corbettmαths Shade 25% of the rectangle
Simplify fully	
60	
80	
Sketch the net of a cube	
List the square numbers between 20 and 70	List the prime numbers under 20.
Parmjit sells 12 books of raffle	Each ticket costs 30p
tickets There are 10 tickets in each book.	How much money does he receive?
How many tickets does he sell?	

23rd August Numerac	y 5-a-day
Write these numbers in order of size. Start with the largest 2301 2290 2310	Corbettmαths Work out the sum of 2301, 2290 and 2310
Here is a sequence of numbers 2 6 18 54	What is the rule for continuing the sequence?
Isabella believes all prime numbers are odd. Is she correct?	
Find the perimeter of this equilateral triangle.	9cm
Work out 994 ÷ 7	Work out 312 ÷ 13

24th August Numera	cy 5-a-day
Name this type of triangle	Corbettmaths
	This is a centimetre grid. What is the area of the shape?
£15 x number of hours The cost of a plumber is found by using the formula above.	A job costs £60. How long did the job last?
Write 0.2 as a fraction	Write 0.2 as a percentage
Blonde Brown Red Black	The pie chart shows information about the hair colour of the students in a class. There are 8 students with blonde hair. How many students are in the class?

25th August Nu	umeracy 5-a-day
	The rectangle is drawn on a centimetre grid. What is its area?
How many minutes are in half a hour?	How many minutes are in two and a half hours?
Esme says that $36 + 8 \div 4 = 11$ Is Esme correct? Explain why	
Pattern 1 Pattern 2 Patr	Draw Pattern 4
Work out the number that is hal between 125 and 275	fway

26th August Numerac	y 5-a-day
12 8 16 3 19 36 Write down one number from the list that is a multiple of 6	Corbettmαths Write down the square numbers from the list
Write down the temperature on the thermometer.	The temperature falls by 3°C Work out the new temperature.
Work out 6.8 – 1.47	
$ \begin{array}{c} \text{input} & \text{output} \\ 3.2 \longrightarrow \times 100 \longrightarrow ? \end{array} $	input output ?
Work out 30% of 160	

27th August Numerac	y 5-a-day
	Corbettmaths
Name	Name
Henry has £3	
He buys 3 packets of crisps costing 60p each.	
How much money does he have left?	
There are 135 pupils in Year 9 at a school	How many students are blonde?
$\frac{2}{5}$ of these students are blonde.	
Write 34.8 correct to the nearest whole number.	Write 6.3 correct to the nearest whole number.
A bus leaves Bristol at 10:05 and arrives in Birmingham at 12:40.	
How long does the journey last?	

28th August Numerac	y 5-a-day
Match the triangles to the correct names.	Corbettmaths Triangle Isosceles Right angled
Work out -9 + 4	Equilateral Scalene
Arrange in order from smallest to largest 0.77 0.277 0.8 0.709	
A TV programme began at 08:55 and ended at 10:20. How long did it last?	
Complete each sentence by writing in a sensible metric unit. The amount of paint in a tin is 2.5	The length of a page is 297

29th August Numeracy			ı	Numerac	y 5-a-day	
Write 7.8 correct to the nearest whole number					est	Write 12.3 correct to the nearest whole number
Caravan Luxury Basic Family Comfort	Sleeps 6 4 6 4	Cot ✓	Decking ✓	BBQ ✓	£550 £290 £435 £325	Which caravan sleeps 4 people and costs less than £300?
Matilda wants to rent a caravan for 6 people that has a BBQ and a cot. How much would this caravan cost?					ot.	
Arrange in order, starting with the smallest first. 0.19 0.3 0.215 0.099 0.1						
On the isometric grid, draw an isosceles triangle.					n	

30th August Numerac	y 5-a-day
12 8 16 3 19 36	Corbettmaths
Write down three numbers, from the list, that add up to 30	
Arlo says that $9 + 4 \times 2 = 26$	
Is Arlo correct? Explain why	
Write $\frac{7}{10}$ as a percentage	
Which is larger?	
10% of £130	
or	
50% of £30	
1 2 3 4 5 6	Write down the probability that the card is a 3
A card is picked at random	

31st August N	umeracy	5-a-day
Write 30,000 in words		Corbettmαths Write two thousand and two in figures
Double 36		Double 1.8
Mirror Line		Reflect the shape in the mirror line
		Work out 20% of £900
Both rectangles have the same a Find the length of the second rectangle.	area.	12cm ? 5cm 3cm