

# MATHEMATICS HOMEWORK BOOKLET

Year 7 Book B AUTUMN TERM







### How does it work?

- One homework will be set a week
- The set and due date for each homework will be written on this page
- Some homework will need completing on this booklet, others on the internet
- If you need help logging onto a website, you need to see your class teacher
- If you need help with the homework task, you must
   <u>speak to your teacher</u>
   <u>before the due date</u>

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# Mathswatch log in details:

Below are the log in instructions you will need in order to access and complete some of the homework tasks in this booklet.

Username—firstnamelastname@benjamin Password—your DOB (format: monthDYYYY)

# **Completing your homework**

All homework tasks need to be completed in this booklet or on a specific website.

There are also **answers** for all booklet tasks at the back of the booklet. Part of your homework task each week is to **mark your work**. Make sure you mark all your answers in another colour pen, making any corrections if you need to.

**<u>Remember</u>** - if you need help, you must speak to your teacher **before** the due date.







# **HOMEWORK 1: NUMERACY**

### **MENTAL STRATEGIES** do these in your head

TIMESTABLES do these in your head



| × | 6 | 7 | 3 | 8 | 5 | 4 |
|---|---|---|---|---|---|---|
| 5 |   |   |   |   |   |   |
| 3 |   |   |   |   |   |   |
| 7 |   |   |   |   |   |   |
| 4 |   |   |   |   |   |   |
| 6 |   |   |   |   |   |   |
| 8 |   |   |   |   |   |   |

| Q  | Question                       | Answer | Q   | Question            | Ar   |
|----|--------------------------------|--------|-----|---------------------|------|
| 1  | 2 + 3                          |        | 1   | 2 × 9 = 🗆           |      |
| 2  | 89 + 11                        |        | 2   | 24 ÷ 3 = □          |      |
| 3  | What is half of                |        | 3   | 10 × □ = 80         |      |
|    | 6?                             |        | 4   | 6 ÷ □ = 3           |      |
| 4  | 125 – 10                       |        | 5   | 1 × 2 = 🗆           |      |
| 5  | 177 + 🗆 = 270                  |        | 6   | 28 ÷ 7 = □          |      |
| 6  | 53 = 23 + 🗆                    |        | 7   | □ × 6 = 54          |      |
| 7  | 805 - 804                      |        | 8   | □ ÷ 2 = 5           |      |
| 8  | 4 × 1 = 4, so 4<br>÷ 4 = □     |        | 9   | 3 × 9 = □           |      |
| 9  | Write 20:12 in                 |        | 10  | 4 ÷ 4 = □           |      |
|    | 12 hour clock<br>format        |        | Tot | tal out of 10       |      |
| 10 | 9:37 pm is how                 |        |     |                     |      |
|    | many minutes<br>after 9:08 pm? |        |     | LOOI                | 2    |
|    | Total out of 10                |        |     | N15a, N16, N<br>N10 | l7b, |

| Q   | Question     | Answer |  |  |  |  |  |
|-----|--------------|--------|--|--|--|--|--|
| 1   | 2 × 9 = □    |        |  |  |  |  |  |
| 2   | 24 ÷ 3 = □   |        |  |  |  |  |  |
| 3   | 10 × □ = 80  |        |  |  |  |  |  |
| 4   | 6 ÷ □ = 3    |        |  |  |  |  |  |
| 5   | 1 × 2 = □    |        |  |  |  |  |  |
| 6   | 28 ÷ 7 = □   |        |  |  |  |  |  |
| 7   | □ × 6 = 54   |        |  |  |  |  |  |
| 8   | □ ÷ 2 = 5    |        |  |  |  |  |  |
| 9   | 3 × 9 = □    |        |  |  |  |  |  |
| 10  | 4 ÷ 4 = □    |        |  |  |  |  |  |
| Tot | al out of 10 |        |  |  |  |  |  |
|     |              |        |  |  |  |  |  |

| Q  | Question   | Answer |
|----|--|--------|
| 1  | 61 × 31  |        |
| 2  | 657 – 382  |        |
| 3  | 7.2 × 94.2   |        |
| 4  | 0.7 as a fraction  |        |
| 5  | 46.15 + 5.08   |        |
| 6  | (-40) ÷ (-4)   |        |
| 7  | If a = 4 b = 3 and c = 1,<br>what is the value of<br>3a - b <sup>2</sup> ? |        |
| 8  | 3 – (-5)   |        |
| 9  | What is the highest<br>common factor of 12<br>and 4?                       |        |
| 10 | What is the value of 13 squared?   |        |
|    | Total out of 10  |        |

# **Problem solving!**

# 

### Apply your core skills to the challenge question below...



# place value puzzles

In each puzzle, work out which number from the grid is being described.

### Puzzle 1

- My number is not an integer.
- My number has a 1 in the units column
- My number is greater than thirty
- My number is  $\neq$  31.3

My number has 1 in the hundredths column

| 1.01 | 301   | 31.1 |  |
|------|-------|------|--|
| 3.1  | 3.101 | 31.3 |  |
| 30.1 | 31.01 | 1.03 |  |

### Puzzle 2

| My number is less than<br>eighteen thousand |
|---|
| My number is ≠ 180                          |
| My number is > 18                           |
| My number has                               |

8 in both the tens and tenths columns

| 180   | 18.01 | 1.81 |
|-------|-------|------|
| 0.18  | 1800  | 188  |
| 180.8 | 18180 | 18.8 |



# HOMEWORK 2: ODD AND EVEN

An odd number can end in 1, 3, 5, 7 or 9.

An even number can end in 0, 2, 4, 6 or 8.

Circle all the <u>even</u> numbers in the grid below.

Write a sentence describing what you have found.

| 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 | 28 | 29 | 30  |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40  |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50  |
| 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60  |
| 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70  |
| 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80  |
| 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90  |
| 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |

All even numbers are in the \_\_\_\_\_ times table. Therefore, all even numbers are divisible by

# CHALLENGE 1

- I am greater than 200.
- I am even.
- I am a multiple of 5.

```
Who am I? _____
```

| CHAL | IFNGF | 2 |
|------|-------|---|
| CHAL | LINGL | 4 |

- I am an odd number.
- I am less than 800.
- The total of all my digits is also odd.
- I am not a multiple of 5.

Who am I?\_\_\_\_\_

| A   | в   | с   | D   | A   | в   | с   | D          |
|-----|-----|-----|-----|-----|-----|-----|------------|
| 526 | 713 | 92  | 107 | 526 | 713 | 92  | 107        |
| Е   | F   | G   | H   | Е   | F   | с   | н          |
| 274 | 810 | 625 | 321 | 274 | 810 | 625 | <i>321</i> |

# **Problem solving!**

Apply your core skills to the challenge questions below...



# CHALLENGE 1

- I am less than 900.
- I am a 3-digit number.
- I am odd.
- The total of all my digits is also odd.

Who am I?\_\_\_\_\_

# CHALLENGE 2

- I am greater than 250.
- My hundreds digit is less than 8.
- I am an even number.
- My smallest digit is my tens digit.

Who am I?\_\_\_\_ C Α В C D В D Α 280 509 280 465 258 509 465 258 G E F Н Ε F G Н 912 314 87 833 912 314 87 833

Shown below are 4 number cards.



Using the number cards, make

(a) the smallest possible 2 digit number.

(1)

(b) the largest possible 4 digit odd number.

 Write down an odd prime number.

(1)

Andrea adds two odd numbers.

odd

Is the correct answer, odd, even or either?



even

either

Benjamin Britten Academy of Music and Mathematics

HW



# **HOMEWORK 3:** THE SIEVE OF ERATOSTHENES

You will need to complete some research for this homework task.

By using the internet or reading a book, try and find the answers to the questions below:

1) Who was Eratosthenes?

2) When and where was he born, and how old was he when he died?

3) Eratosthenes became the chief librarian...where?

4) Eratosthenes was the first person to do what?

5) What two nicknames was Eratosthenes given?

6) We know Eratosthenes for his 'sieve', which helps people to identify prime numbers. What is the definition for a prime number?

# Using the Sieve of Eratosthenes



1) <u>Circle</u> the first number (number 2). This number is **prime.** 

2) <u>Cross out</u> all the multiples of 2 on your grid. You would cross out the numbers 4, 6, 8, 10, 12, ...

These numbers have been 'sieved' out.

3) <u>Circle</u> the next number on your list that has not been crossed off yet– this should be the number 3. This number is **prime.** 

4) Cross out all the multiples of 3 on your grid (6, 9, 12, 15...)

5) <u>Circle</u> the next number on your list that has not been crossed off yet– this should be the number 5. This number is **prime.** 

6) <u>Cross out</u> all the multiples of 5 on your grid (5, 10, 15, 20...)

7) <u>Circle</u> the next number on your list that has not been crossed off yet– this should be the number 7. This number is **prime.** 

8) Cross out all the multiples of 7 on your grid (7, 14, 21, 28...)

### Circle all the numbers not crossed off yet—these are all PRIME!

|    | 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 | 28 | 29 | 30  |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40  |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50  |
| 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60  |
| 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70  |
| 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80  |
| 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90  |
| 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |



# HOMEWORK 4: MATHSWATCH



For this week's homework, your teacher will set you a task to complete on the website Mathswatch. The task will be based on the content you have learnt over the past half term in your maths lessons. You can use the space on the next page to do any working out if you need to.

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# Additional working out space:





# HOMEWORK 5: NUMERACY

Literacy challenge: Missing vowels! Below are 3 keywords in maths, but the vowels are missing. Can you fill the blanks? D\_V\_S\_\_N

C\_LC\_L\_T\_\_N

\_P\_R\_T\_\_NS

| × | 4 | 5 | 8 | 3 | 7 | 6 |
|---|---|---|---|---|---|---|
| 4 |   |   |   |   |   |   |
| 3 |   |   |   |   |   |   |
| 7 |   |   |   |   |   |   |
| 8 |   |   |   |   |   |   |
| 6 |   |   |   |   |   |   |
| 5 |   |   |   |   |   |   |

TIMESTABLES -

do these in your head

**MENTAL STRATEGIES** -

do these in your head

| Q               | Question                 | Answer |  |
|-----------------|--------------------------|--------|--|
| 1               | □ + 6 = 10               |        |  |
| 2               | What is double<br>5?     |        |  |
| 3               | Halve 63                 |        |  |
| 4               | 26 + 30                  |        |  |
| 5               | 98 + 99                  |        |  |
| 6               | 22 + 10 = 22 +<br>8 + □  |        |  |
| 7               | 3 + 223                  |        |  |
| 8               | 20 + 61 = 20 +<br>60 + □ |        |  |
| 9               | □ + 3 = 5                |        |  |
| 10              | □ + 2 = 20               |        |  |
| Total out of 10 |                          |        |  |

| Q               | Question   | Answer |  |  |
|-----------------|------------|--------|--|--|
| 1               | 9 × 5 = □  |        |  |  |
| 2               | 10 ÷ 2 = □ |        |  |  |
| 3               | 8 × □ = 8  |        |  |  |
| 4               | 16 ÷ □ = 4 |        |  |  |
| 5               | 8 × 4 = □  |        |  |  |
| 6               | 15 ÷ 3 = □ |        |  |  |
| 7               | □ × 2 = 12 |        |  |  |
| 8               | □ ÷ 7 = 1  |        |  |  |
| 9               | 5 × 8 = 🗆  |        |  |  |
| 10              | 14 ÷ 2 = □ |        |  |  |
| Total out of 10 |            |        |  |  |
|                 |            |        |  |  |

OOK

N11, N23c, N25

|   | Q  | Question                                       | Answer |
|---|----|--|--------|
|   | 1  | 3905 ÷ 5                                       |        |
|   | 2  | 7 + 25 ÷ 5                                     |        |
|   | 3  | 2.013 ÷ 0.1                                    |        |
|   | 4  | 2.26 × 1000                                    |        |
|   | 5  | 34 – 0.74                                      |        |
|   | 6  | Write 56/72 in its simplest form               |        |
|   | 7  | Difference between 4<br>and -4                 |        |
| _ | 8  | Value of the dot?                              |        |
| - | 9  | What is the lowest common multiple of 4 and 5? |        |
|   | 10 | What is the cube root of 27?                   |        |
|   |    | Total out of 10                                |        |



**Music and Mathematics** 

# **Problem solving!**

### Apply your core skills to the challenge questions below...

### Symbols

Look at these symbols.



Choose two of the symbols to make a correct calculation.



Now choose two of the symbols to make a different correct calculation.



### Puzzle 3

- My number is  $\leq 0.2$
- My number is  $\neq 0.15$
- My number is greater than one tenth
  - My number has no hundredths

| 0.24              | 0.2  | 0.12 |
|-------------------|------|------|
| 0.02              | 0.01 | 0.5  |
| <mark>0.15</mark> | 2.02 | 0.1  |

### Puzzle 4

- My number is < 44,000
- My number is more than five thousand four hundred and fifty

My number is ≠ 5454

My number has 5

hundreds

My number is greater than fifteen thousand

| 14,500 | 15,501 | 45000  |
|--------|--------|--------|
| 5401   | 5444   | 5454   |
| 14,534 | 4544   | 10,500 |





1 mark



# **HOMEWORK 6:** ADDING AND SUBTRACTING

**MENTAL STRATEGIES** -

do these in your head

| 1).  | 13 + 4 =  | 2).  | 20 - 10 = | 3).  | 6 + 6 =   |
|------|-----------|------|-----------|------|-----------|
| 4).  | 16 - 5 =  | 5).  | 32 - 29 = | 6).  | 11 + 6 =  |
| 7).  | 5 + 25 =  | 8).  | 37 - 10 = | 9).  | 16 - 5 =  |
| 10). | 11 + 23 = | 11). | 13 + 5 =  | 12). | 19 - 6 =  |
| 13). | 7 + 5 =   | 14). | 18 - 12 = | 15). | 44 - 38 = |
| 16). | 12 + 12 = | 17). | 20 - 9 =  | 18). | 53 - 10 = |
| 19). | 95 - 91 = | 20). | 57 - 53 = | 21). | 25 + 12 = |
| 22). | 19 - 11 = | 23). | 39 - 33 = | 24). | 9 + 7 =   |
|      |           |      |           |      |           |



# **Problem solving!**



### Apply your core skills to he challenge questions below...





# HOMEWORK 7: MATHSWATCH



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# Additional working out space:





# HOMEWORK 8: NUMERACY

**MENTAL STRATEGIES** -

do these in your head

TIMESTABLES – do these in your head

### Literacy challenge: <u>Missing vowels!</u>

Below are 3 keywords in maths, but the vowels are missing. Can you fill the blanks?

PL\_C\_V\_L\_\_

TH \_\_ S \_ ND

S\_BTR\_CT\_\_N

| × | 6 | 3 | 4 | 7 | 8 | 5 |
|---|---|---|---|---|---|---|
| 4 |   |   |   |   |   |   |
| 6 |   |   |   |   |   |   |
| 5 |   |   |   |   |   |   |
| 7 |   |   |   |   |   |   |
| 3 |   |   |   |   |   |   |
| 8 |   |   |   |   |   |   |

| ٥  | Question   | Answer |
|----|--|--------|
| 1  | 1 + 4  |        |
| 2  | 19 + 81  |        |
| 3  | Halve 2  |        |
| 4  | 42 - 10  |        |
| 5  | 124 + 🗆 = 200                                    |        |
| 6  | 84 = 34 + 🗆                                      |        |
| 7  | 925 - 920  |        |
| 8  | 7 × 8 = 56, so<br>56 ÷ 7 = □                     |        |
| 9  | Write 1:58 pm<br>in 24 hour clock<br>format      |        |
| 10 | 6:59 am is how<br>many minutes<br>after 6:19 am? |        |
|    | Total out of 10                                  |        |

| 0               | Question   | Answer   |  |  |  |
|-----------------|------------|----------|--|--|--|
| 1               | 2 × 6 = □  | 74101101 |  |  |  |
| 2               | 8 ÷ 2 = 🗆  |          |  |  |  |
| 3               | 1 × 🗆 = 10 |          |  |  |  |
| 4               | 10 ÷ □ = 1 |          |  |  |  |
| 5               | 9 × 7 = 🗆  |          |  |  |  |
| 6               | 5 ÷ 5 = 🗆  |          |  |  |  |
| 7               | □ × 8 = 72 |          |  |  |  |
| 8               | □ ÷ 8 = 3  |          |  |  |  |
| 9               | 2 × 4 = □  |          |  |  |  |
| 10              | 18 ÷ 6 = 🗆 |          |  |  |  |
| Total out of 10 |            |          |  |  |  |
|                 | LOCK       |          |  |  |  |

N7b, A10, N19, N31a

| Ø  | Question   | Answer |
|----|--|--------|
| 1  | 3 × 991  |        |
| 2  | 16182 – 8764   |        |
| 3  | 2.3 × 7.17   |        |
| 4  | 0.45 as a fraction   |        |
| 5  | 22.17 + 8.31   |        |
| 6  | (-48) ÷ 6  |        |
| 7  | If a = 6 b = 3 and c =<br>10, what is the value of<br>bc / a ? |        |
| 8  | (-10) – (-5)   |        |
| 9  | What is the highest<br>common factor of 15<br>and 27?          |        |
| 10 | What is the value of 7 squared?                                |        |
|    | Total out of 10  |        |

# **Problem solving!**

### Apply your core skills to the challenge question below...

### Drinks

A café sells small, medium and large drinks.

The table shows the number of drinks the café sold on one day.

|        | Coffee | Tea | Chocolate |
|--------|--------|-----|-----------|
| Small  | 110    | 14  | 24        |
| Medium | 121    | 103 | 42        |
| Large  | 90     | 64  | 58        |

(a) Altogether, how many chocolate drinks were sold?



CC

N3, N7c



# HOMEWORK 9: ANALOGUE CLOCKS



2. On each clock draw the hands in the correct place to show the time given







10

# HOMEWORK 10: RESEARCH TASK

# Roman Numerals

Many clock faces still use roman numerals like IV and XI.

At the end of a film, the year it was made is often given using roman numerals. For example. MCMLXXX means 1980.

| 1    | one                    | XI  | eleven                   |
|------|------------------------|-----|--------------------------|
| II   | two                    | XII | twelve                   |
| III  | three                  | XX  | twenty                   |
| IV   | four (one before five) | XXX | thirty                   |
| V    | five                   | XL  | forty (ten before fifty) |
| VI   | six                    | L   | fifty                    |
| VII  | seven                  | LX  | sixty                    |
| VIII | eight                  | С   | hundred                  |
| IX   | nine (one before ten)  | CM  | nine hundred             |
| Х    | ten                    | Μ   | thousand                 |

1 Write down the value of each of the numbers written below in roman numerals.



### **Cistercian Numerals!**

Using the key below, see if you can work out what numbers these Cistercian numerals represent.







# HOMEWORK 11: MATHSWATCH



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# Additional working out space:





# HOMEWORK 12: NUMERACY

MENTAL STRATEGIES -

do these in your head

TIMESTABLES – do these in your head

### <u>Literacy challenge –</u> <u>Missing vowels!</u>

Below are 3 keywords in maths, but the vowels are missing. Can you fill the blanks?

SQ\_\_R\_

D\_C\_M\_LS

TIMESTABLES

| × | 8 | 6 | 7 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| 4 |   |   |   |   |   |   |
| 6 |   |   |   |   |   |   |
| 3 |   |   |   |   |   |   |
| 8 |   |   |   |   |   |   |
| 5 |   |   |   |   |   |   |
| 7 |   |   |   |   |   |   |

| Q  | Question                 | Answer |  |  |  |  |  |
|----|--------------------------|--------|--|--|--|--|--|
| 1  | □ + 5 = 10               |        |  |  |  |  |  |
| 2  | Double 3                 |        |  |  |  |  |  |
| 3  | Halve 35                 |        |  |  |  |  |  |
| 4  | 173 + 50                 |        |  |  |  |  |  |
| 5  | 47 + 44                  |        |  |  |  |  |  |
| 6  | 32 + 10 = 32 +<br>8 + □  |        |  |  |  |  |  |
| 7  | 1 + 566                  |        |  |  |  |  |  |
| 8  | 40 + 68 = 40 +<br>60 + □ |        |  |  |  |  |  |
| 9  | 3 + 2                    |        |  |  |  |  |  |
| 10 | 4 + 🗆 = 20               |        |  |  |  |  |  |
| •  | Total out of 10          |        |  |  |  |  |  |

| ٥   | Question     | Answer   |
|-----|--------------|----------|
| 1   | 6 × 3 = □    |          |
| 2   | 14 ÷ 2 = □   |          |
| 3   | 6 × □ = 36   |          |
| 4   | 18 ÷ □ = 6   |          |
| 5   | 9 × 3 = □    |          |
| 6   | 32 ÷ 8 = □   |          |
| 7   | □ × 4 = 24   |          |
| 8   | □ ÷ 10 = 4   |          |
| 9   | 4 × 2 = □    |          |
| 10  | 30 ÷ 3 = □   |          |
| Tot | al out of 10 |          |
|     |              | <b>\</b> |
|     |              |          |

N23c, N11, N25, N19b

| Q  | Question                                | Answer |
|----|---|--------|
| 1  | 2688 ÷ 3                                |        |
| 2  | 8 + 8 ÷ 2                               |        |
| 3  | 245.52 ÷ 4                              |        |
| 4  | 6.14 × 10                               |        |
| 5  | 16.15 – 5.11                            |        |
| 6  | Write 63/70 in its simplest form        |        |
| 7  | Which is the lowest<br>number, 3 or -9? |        |
| 8  | Value of the dot?                       |        |
| 9  | List the first 4 multiples of 14        |        |
| 10 | What is the value of (-4) cubed?        |        |
|    | Total out of 10                         |        |

- 1 What is half of half of eighty?
- 2 How many twenty pence coins make three pounds?
- 3 What is the perimeter of a rectangular room twelve metres by six metres?
- 4 I am facing South-West and the wind is hitting me on my back. What direction is the wind coming from?
- 5 If six per cent of pupils of a school are absent, what percentage of pupils are present?
- 6 Write nought point seven as a fraction.
- 7 What is twenty-fifteen in twelve hour clock time?
- 8 Write the number six thousand two hundred and four in figures.
- 9 What number is twelve more than fifty-seven?
- 10 If pears cost eleven pence each, how many can I buy for one pound?
- 11 With three darts I score six, double five and treble five. What is my total score?
- 12 A film lasting one and half hours starts at six twenty p.m. What time does the film finish?
- 13 If I buy a card for sixty-five pence and a stamp for thirty-two pence, how much change do I get from one pound?
- 14 What number is nine less than sixty-two?
- 15 How many degrees are there in one tenth of a right angle?
- 16 A fifth of my wages is taken in tax. What percentage have I got left?
- 17 How many grams are there in half a kilogram?
- 18 What four coins make forty pence?
- 19 One angle in an isosceles triangle is one hundred and twenty degrees. How large is each of the other two angles?
- 20 What number is one hundred times bigger than nought point six?



HW

# HOMEWORK 13: PERIMETER

The perimeter is the total distance around the outside of a 2D (flat) shape.

To calculate it, add the lengths of all the sides together.

Find the perimeter of the following rectangles and squares. Remember to give the units for each answer. (Diagrams are not to scale).



# **Problem solving!**

### Apply your core skills to the challenge questions below...

Calculate the perimeter of the following shapes. *Section A* 





13



# HOMEWORK 14: MATHSWATCH



For this week's homework, your teacher will set you a task to complete on the website Mathswatch. The task will be based on the content you have learnt over the past half term in your maths lessons. You can use the space on the next page to do any working out if you need to.

Below are the log in instructions you will need in order to access and complete this homework task.

If you have any issues logging in, you <u>must</u> speak to your class teacher as soon as possible.

# Username – firstnamelastname@benjamin

# Password— your DOB (format: monthDYYYY)

If you need a printed copy of this homework task, make sure you speak to your class teacher <u>before</u> the due date and they will print a copy for you to complete.

# Additional working out space:



|        |  | _              |                 |          |                  |         |          |         |    |
|--------|--|----------------|-----------------|----------|------------------|---------|----------|---------|----|
|        |  |                | 8               | 84       | 95               | 54      | 79       | 40      | 8  |
|        |  |                | 9               | 98       | 42               | 8T      | 84       | 30      | 7  |
|        |  |                | Þ               | 77       | 87               | 71      | 78       | 07      | T  |
|        |  |                |                 |          | 00               |         |          | 00      | -  |
|        |  | 1              | Z               | 42       | 67               | 12      | 95       | 32      | ٢  |
| 7      | st the value of 13 squared?  | 1 t            | 3               | 8T       | 77               | 6       | 54       | ST      | τ  |
| \<br>2 | <ul> <li>3 – (-5)</li> <li>3 – (-5)</li> <li>4 A mon factor of 12 and 10 mon factor of 12 mon factor</li></ul> | 3 8            | S               | 30       | 32               | ST      | 40       | 52      | 7  |
| 2      | $f a = 4 b = 3$ and $c = 1$ , what is the value of $3a - b^2$ ?  | 3              | ×               | ٩        | 1                | c       | 0        | С       | ,  |
| )      | (t-4) ÷ (0t-   | 01             | ~               | 9        | 2                | C       | 0        | -       |    |
| 1      | 80.15 + 51.94  | 51.23          |                 |          |                  |         |          |         |    |
| )      | Tas a fraction   | 01/2           |                 |          |                  |         |          |         |    |
| 4      | 7.2 × 94.2   | <b>42.87</b> 8 |                 |          |                  |         |          |         |    |
| )      | 222 - 382  | 575            |                 |          |                  |         |          |         |    |
| 4      | 61 × 31  | 1681           |                 |          |                  |         |          |         |    |
| 2      | Guestion   | JawanA         |                 |          |                  |         |          |         |    |
| ŀ      | □ = t ÷ t  | ۱.             |                 |          |                  |         |          |         |    |
|        | 3 × 6 = □  | 22             |                 |          |                  |         |          |         |    |
| ŀ      | L ÷ 5 = 2  | 01             |                 |          |                  |         |          |         |    |
| -      |  | 6              |                 |          |                  |         |          |         |    |
|        |  | 7              |                 |          |                  |         |          |         |    |
| ╞      | ♀ · · · · · = · · · · · · = · · · ·  |                |                 |          |                  |         |          |         |    |
| ╞      | 08 = 🗆 × 0F  | 8              | <u> </u>        |          |                  |         |          |         |    |
| ł      | 54 ÷ 3 = □   | 8              |                 |          |                  |         | <b>.</b> |         |    |
|        | □ = 6 × 7  | 81             |                 |          | ARIT             | MH.     | DITE     |         |    |
|        | Question   | rewenA         |                 |          |                  |         |          |         |    |
|        | Smq 80:e nefte setunim ynsm wod si mq 75:e   | 50             | -               |          | 1111             |         | ITA      | NÖ      |    |
|        | Write 20:12 in 12 hour clock format  | mq \$1:8       |                 |          | ٩A               | 1110    |          |         |    |
| ,      | □ = ⊅ ÷ ⊅ os '≯ = ↓ × ⊅  | k              |                 |          |                  |         | NO       |         |    |
| ;      | 805 – 804  | ŀ              |                 |          | t IIĤ            | neld sh | iks      |         |    |
|        | 23 = 53 + □  | 30             | <mark>DS</mark> | t to emo | attel ette       | ers are | gnissim  | γ nsጋ . | nc |
|        | 177 + 🗆 = 270  | 63             | _               | Below :  | are 3 ke         | yword   | tem ni s | tnd (sh |    |
|        | 126 – 10   | 911            | _               |          | ISSUA            | at 21   | SJan     |         |    |
|        | What is half of 6?   | 3              |                 | 117      | (38.19<br>(38.19 | ieno /  | Suat     |         |    |
| 1      |  | 001            |                 | 75 1     |                  |         | ~~~      |         |    |
| 1      | 11 + 08  | 001            |                 |          |                  |         |          |         |    |
|        | 5 + 3<br>5 - 3   | 9<br>9         |                 |          |                  |         |          |         |    |

### ANSWERS-WEEK 1



### (8.081) S əlszu

| 8.81 | 08181 | 8.081 |
|------|-------|-------|
| 881  | 0081  | 81.0  |
| ۲8.۲ | 10.81 | 081   |

### (8.081) <u>S əlzzu</u> (

My number is less than eighteen thousand 081 ≠ 180

81 < si 19dmun yM

My number has tenths columns tenths columns

# 1.15 105 10.1 8.15 101.5 1.5 30.1 31.01 1.03

### (10.15) 1 <u>əlzzu</u> (

My number is not an integer.

My number has a 1 in the units column

My number is greater My number is greater

£.15 ≠ si 19dmun γM

hundredths column My number has 1 in the

### ANSWERS—WEEK 2

| •0 | wj |
|----|----|
|    |    |

yd 9ldisivib are aredivisible by Therefore, all even .9ldst somt owt oft

|    | •   | •   | •    | ••  | - <b>-</b> - |     |
|----|-----|-----|------|-----|--------------|-----|
| ui | are | STG | əqɯn | u u | ϶៱϶          | IIA |

.bnuof aved uoy tedw gni Write a sentence describ-

| <b>100</b> | 66 | 86  | <b>L</b> 6 | 96 | 56         | <b>t</b> 6  | 86  | 76         | τ6 |
|------------|----|-----|------------|----|------------|-------------|-----|------------|----|
| 06         | 68 | 88  | ٤٧         | 98 | 58         | <b>t</b> /8 | 83  | 28         | τ8 |
| 08         | 6L | 8L  | LL         | 92 | s۷         | t/          | ٤L  | ZL         | ĩ۷ |
| 02         | 69 | 89  | ۷9         | 99 | <b>S</b> 9 | <b>t</b> 9  | 89  | <b>7</b> 9 | τ9 |
| 09         | 65 | 85  | ٢Z         | 95 | SS         | <b>t</b> S  | 23  | 22         | τs |
| 05         | 67 | 817 | Lt         | 97 | St         | tt          | 643 | 72         | τt |
| 0t         | 68 | 38  | 75         | 98 | SE         | 34          | 33  | 32         | τε |
| 30         | 67 | 82  | ٢Z         | 97 | SZ         | 54          | 23  | 22         | 12 |
| 50         | 6T | 8T  | L٦         | 91 | sτ         | τt          | εt  | 22         | π  |
| ΟT         | 6  | 8   | L          | 9  | S          | t           | 3   | 2          | τ  |

| and the set of the second s | TTE<br>H | <i>579</i><br>D | OT8<br>H | 7∠4<br>∃ |
|---|----------|-----------------|----------|----------|
|   | LOT      | ТЬ              | ETL      | 975      |
|   | D        | >               | B        | V        |

| ITE | 579 | <i>018</i> | +LT |
|-----|-----|------------|-----|
| Н   | ס   | F          | Е   |
| LOT | 7Ь  | ETL        | 975 |
| D   | 2   | B          | A   |

\_упро ат Г?\_

- I am a multiple of 5.

  - I аш єлєи.
- I am greater than 200.

# CHALLENGE 1

\_ гі тр ол І?\_

- I am not a multiple of 5.
- The total of all my digits is also odd.
  - I am less than 800.
  - I am an odd number.

# **CHALLENGE 2**

Shown below are 4 number cards.

Using the number cards, make

(a) the smallest possible 2 digit number.

56

(L)

(b) the largest possible 4 digit odd number.

8629

(L)

# Write down an odd prime number.

### Lots of different answers

(L)

Write down an even square number. Lots of different answers

(L)

either

Andrea adds two odd numbers.

Is the correct answer, odd, even or either?



# *ΣΗ*ΥΓΓΕΝΘΕ Τ

рро

- 1 am Jess than 900.
- I am a 3-digit number.
- ј аш одд.
- The total of all my digits is also odd.

\_\_\_; шр оцМ

| 4TE           | 5 <i>15</i> | EE8                   | <i>∠8</i>            |
|---------------|-------------|-----------------------|----------------------|
| ⊓<br>857<br>0 | 594<br>5    | ר<br>7 <i>80</i><br>8 | ∃<br><i>bOS</i><br>∀ |

| <i>415</i>                                    | <i>716</i> | <i>EE8</i> | <i>∠8</i> |  |  |
|---|------------|------------|-----------|--|--|
| Н   | ס          | F          | Е         |  |  |
| 857   | 594        | 087        | 605       |  |  |
| ۵   | 2          | B          | $\forall$ |  |  |
| ۸. און אין אין אין אין אין אין אין אין אין אי |            |            |           |  |  |

My smallest digit is my tens digit.

My hundreds digit is less than 8.

ι αш αυ ελευ υπωρει.

I am greater than 250.

**CHALLENGE 2** 

Senedisotsia sew odW (1

# Eratosthenes was a Greek mathematician and

# geographer.

2) When and where was he born, and how old was he when he died?

He was born 276 BC in Cyrene (North Africa-known today as Libya) and he died 194BC at 82 years old.

3) Eratosthenes became the chief librarian...where?

He became the chief librarian in the Great Library of Alexandria. This is located in Egypt and was one of the most significant libraries in the world.

4) Eratosthenes was the first person to do what?

He may have been the first person to use the word geography, invented the system of longitude and latitude, and made a map of the known world. Additionally, he designed a system for finding prime numbers.

5) What two nicknames was Eratosthenes given?

Pentathlos and Beta — a man of many talents.

6) We know Eratosthenes for his 'sieve', which helps people to identify prime number?

A prime number is a whole number that has **exactly** two

.ilesti bns f vd eldisivib vlno si ti tsht gninseM



| 8 |             |   |    |
|---|-------------|---|----|
| L |             |   |    |
| 3 |             |   |    |
| 4 | 3           | What is the cube root of 27?                      | 01 |
|   | 50          | What is the lowest common multiple of 4 and<br>5? | 6  |
| X | 9           | See number line                                   | 8  |
|   | 8           | Difference between 4 and -4                       | L  |
|   | 6/ <u>/</u> | Write 56/72 in its simplest form                  | 9  |
|   | 33.26       | 34 - 0.74   | g  |
|   | 5260        | 2.26 × 1000                                       | 4  |
|   | 20.13       | 2.013 + 0.1                                       | 3  |
|   | 12          | 2 ÷ 52 ÷ 2  | 2  |
|   | 187         | 906£ ÷ 306£                                       | L  |
|   | I9W2NA      | Question  | Ø  |
|   | L           | 14 ÷ S = □  | 01 |
|   | 40          | □ = 8 × 9   | 6  |
|   | L           | ↓ = ∠ ÷ □   | 8  |
|   | 9           | □ × 5 = 15  | L  |
|   | 9           | עני ÷ 3 = ב                                       | 9  |
|   | 32          | □ = ⊅ × 8   | S  |
|   | 4           | 7 = □ ÷ 91  | 4  |
|   | ۱.          | 8 = 🗆 × 8   | 3  |
|   | S           | 10 ÷ 5 = □  | 5  |
|   | 97          | $\Box = S \times 6$                               | ŀ  |
|   | IəwsnA      | Question  | Ø  |
|   | 81          | □ + 5 = 50  | 01 |
|   | 5           | 9 = 2 + D   | 6  |
|   | ۱.          | 50 + €1 = 50 + €0 + □                             | 8  |
|   | 526         | 3 + 553   | L  |
|   | 5           | 55 + 10 = 55 + 8 + □                              | 9  |
|   | 261         | 66 + 86   | 9  |
|   | 99          | 56 + 30   | 4  |
|   | 31.5        | Halve 63  | 3  |
|   | 01          | Sē əlduob si tsrlW                                | 2  |
|   | 4           | 01 = 9 + 🗆  | F  |
|   | I9W2NA      | Question  | Ø  |

### ANSWERS—WEEK 5

L

ST

ΟΡΕΚΑΤΙΟΝS

ΝΟΙΤΑΙUΟΙΑΟ

ΝΟΙΣΙΛΙΟ

Below are 3 keywords in maths, but the vowels are missing. Can you fill the blanks?

Literacy challenge: Missing vowels!

**J** 

t

JZ

S



| 10,500           | 4544   | 14'234             |
|------------------|--------|--------------------|
| <del>2</del> 424 | 5444   | 10 <del>4</del> 01 |
| 42000            | 15.501 | 14'200             |

### (102,81) 4 elzzu9

My number is < 44,000

My number is more than five thousand four hundred and fifty

My number is ≠ 5454

hundreds My number has 5

My number is greater than fifteen thousand

| ٢.0  | 20.2 | 91.0         |
|------|------|--------------|
| 9.0  | ٥.0  | 20.0         |
| 21.0 | 2.0  | <b>4</b> 2.0 |

### (S.0) & 9lzzu9

My number is ≤ 0.2 My number is ≠ 0.15 than one tenth than one tenth My number has no hundredths



|    |               |              |      |              |      |    |      | 91 | .(4). | 9  | .(£2). | 8  | .(22) |
|----|---------------|--------------|------|--------------|------|----|------|----|-------|----|--------|----|-------|
| LE | .(12          | $\mathbf{t}$ | .(02 | $\mathbf{r}$ | .(01 | 43 | .(81 | Π  | .(71  | 54 | .(01   | 9  | .(21  |
| 9  | .( <b>4</b> 1 | 15           | .(£1 | 13           | 12). | 81 | .(11 | 54 | .(01  | Π  | .(6    | LZ | .(8   |
| 30 | .(T           | LΙ           | .(9  | ε            | ·(Ç  | Π  | .(4  | 15 | .(£   | 10 | .(2    | LI | .(1   |

| 8               | ٢ | <b>5</b> .      |              | 3 | 0                      | L                      | ١           |
|-----------------|---|-----------------|--------------|---|------------------------|------------------------|-------------|
| 0               |   |                 |              |   | G                      |                        | L           |
| ۲ <sup>21</sup> |   | L               |              | 8 | <b>ک</b> <sup>.8</sup> |                        | <b>С</b> .6 |
|                 | 6 | 0               | <b>8</b> .01 |   |                        | Ч                      |             |
|                 |   | Z               |              |   | 2                      | S                      |             |
| 9               | 6 | 6 <sub>.2</sub> |              | L | 2                      | <b>G</b> <sup>.9</sup> | 3.<br>3.    |
| Z               |   |                 | 9            |   | 0                      |                        | ŀ           |
| ۲.,             | 0 | £               | <b>G</b> .,  |   | ۲.                     | ç                      | ١.          |

| 8-              | 9 ÷ (8 <del>1</del> -)                      | 9  |
|-----------------|---|----|
| 30.48           | 22.17 + 8.31                                | S  |
| 45/100 or 19/20 | 0.45 as a fraction                          | 4  |
| 164.91          | 71.7 × 6.2                                  | 3  |
| 7418            | 16182 – 8764                                | 5  |
| 5973            | ۶ 466 × 3                                   | L  |
| Answer          | Question                                    | ď  |
| •               |   | 01 |
| ٤               |   | 10 |
| 8               | 2 × 4 = 🗆                                   | 6  |
| 54              | □ ÷ 8 = 3                                   | 8  |
| 6               | □ × 8 = 72                                  | L  |
| L.              | □ = 9 ÷ 9                                   | 9  |
| 63              | $\Box = L \times 6$                         | G  |
| 10              | $l = \Box \div 0l$                          | 4  |
| 10              | 0L = 🗆 × L                                  | 3  |
| 4               | □ = Z ÷ 8                                   | 5  |
| 15              | □ = 9 × 7                                   | ŀ  |
| ıəwanA          | Question                                    | g  |
| 40              | Sms 61:3 refts setunim ynsm word si ms 65:3 | 01 |
| 13:58           | Write 1:58 pm in 24 hour clock format       | 6  |
| 8               | □ = ½ ÷ 99 °s '99 = 8 × ½                   | 8  |
| g               | 852 – 850                                   | L  |
| 09              | 84 = 34 + 🗆                                 | 9  |
| 92              | 154 + □ = 500                               | G  |
| 32              | 45 - 10                                     | 4  |
| ۱.              | 2 əvisH                                     | 3  |
| 100             | 18+61                                       | 5  |
| S               | t + ℓ                                       | L  |
| JewenA          | Question                                    | ď  |

Sbared? To sulsv aft si tsdW

(g-) - (0L-)

рс \ я ;

27؟ What is the highest common factor of ۱5 and

If a = 6 b = 3 and c = 10, what is the value of

10

6

8

L

67

3

<u>9</u>–

9

SUBTRACTION

*UNASUOHT* 

PLACE VALUE

Below are 3 keywords in maths, but the vowels are missing. Can you fill the blanks?

Literacy challenge: Missing vowels!

### ANSWERS-WEEK 8

- (9) J5t
- Shows a complete correct method with not more than one computational error

бə

- 15<u>0</u> (euoi) 98 74 24
- 54 + 42 = 64 (error), 64 + 58 = 122
- (00.) 7.3 (d)

### ð sizzug

What is the largest number that can be made by rearranging these cards?



### 9 əlzzuq

can be made by rearranging these cards?

What is the smallest number that







2.06

Q

01

6

Μ

62.8

01

N



3.16

6 ۵۱.

d

10.01

6

2. On each clock draw the hands in the correct place to show the time given

|            |              |            | (I) MMMCXCIV        | (k) MLXVI          |
|------------|--------------|------------|---------------------|--------------------|
| (I) MCCLXV | (i) CCCXXXIX | (h) CXXIII | IIIVXXJ (g)         | VIXXXJ (1)         |
| XIXXX (ə)  | IIIVJ (b)    | IIXX (2)   | $\mathbf{IIVX} (d)$ | <b>2.</b> (a) VIII |

|        | 7L (Y)              | 24 (g)                 |
|--------|---------------------|------------------------|
| 01 (J) | 81 ( <del>s</del> ) | 27 (b)                 |
| 91 (s) | EI (d)              | <b>1.</b> (a) <b>1</b> |

# <u>Cistercian Numerals!</u>

4817, 227, 2700, 3167, 4433, 6390 4817, 227, 2700, 3167, 4433, 6390

| 40     | 7 = 01 ÷ □                 | 8    |
|--------|----------------------------|------|
| 9      | □ × ⊄ = 5⊄                 | L    |
| 4      | 32 ÷ 8 = □                 | 9    |
| 22     | □ = 2 × 6                  | G    |
| 3      | 9 = 🗆 ÷ 81                 | 4    |
| 9      | 9 × □ = 30                 | 3    |
| L      | 14 ÷ 2 = □                 | 5    |
| 18     | □ = 2 × 3                  | ŀ    |
| Answer | Question                   | Ø    |
|        |                            |      |
| 91     | t + □ = 50                 | 7 OL |
| 9      | 3 + 5                      | 6    |
| 8      | $\Box + 09 + 07 = 89 + 07$ | , 8  |
| 299    | J + 200                    | · L  |
| 5      | 32 + 10 = 32 + 8 + 🗆       | 9    |
| 64     | + τt                       | , G  |
| 553    | 173 + 50                   | 4    |
| 8.71   | Halve 35                   | 3    |
| 9      | Couble 3                   | 5    |
| S      | 01 = 5 + 🗆                 | l L  |
| rewer  | guestion                   | ď    |

|                | •                                       |    |
|----------------|---|----|
|                | Stob of the dot?                        |    |
| <b>+9-</b>     | What is the value of (-4) cubed?        | ٥٢ |
| 14' 58' 45' 28 | List the first 4 multiples of 14        | 6  |
| 97             | See number line                         | 8  |
| 6-             | Which is the lowest number, 3 or –9?    | L  |
| 01/6           | mıoî tealqmie eti ni 07\€8 etivW        | 9  |
| 40.11          | 16.15 – 51.01                           | G  |
| <b>4.1</b> 8   | 01 × 41.8                               | 4  |
| 61.38          | 542.52 ÷ 4                              | 3  |
| 15             | 8 + 8 ÷ 2                               | 2  |
| 968            | 2688 ÷ 3                                | L  |
| rewer          | Question                                | Ø  |
| 10             | $\Box = \mathfrak{S} \div \mathfrak{S}$ | 01 |
| 8              | ⊄ × 5 = □                               | 6  |
| 40             | ⊅ = 01 ÷ □                              | 8  |
|                |   |    |

÷.

52

٥٢ 6

**5**2

| <b>1 2 4 5 5 5 5 2 4 5 5 5 5 5 5 8 4 5 5 5 5 5 5 5 8 6 4 4 5 2 5 5 5 5 9 5 1 5 5 5 5 5 5 5 9 5 1 5 </b>   |
|---|
| <b>1</b> 26       45       57       58       32 <b>2</b> 40       30       32       12       50       52 <b>8</b> 64       48       26       54       35       40 <b>3</b> 54       48       26       54       35       40 <b>3</b> 54       18       51       35       40 <b>3</b> 54       38       35       40 <b>3</b> 54       38       37       35 <b>4</b> 55       57       36       17 <b>6</b> 48       36       45       36       37 |
| J       20       47       43       53       32         2       40       30       32       12       50       52         8       40       30       32       12       50       52         8       64       48       26       54       35       40         3       54       18       51       6       15       12   |
| J       20       45       53       53       32         2       40       30       32       32       32       32         8       64       48       20       54       33       40  |
| J       20       45       51       58       32         Z       40       30       32       12       50       52  |
| 2         45         51         58         32   |
|   |

**TIMESTABLES** 

DECIMALS

**3 Q U A R E** 

you fill the blanks? but the vowels are missing. Can Below are 3 keywords in maths,

slowov gnizzim Literacy challenge:

### ANSWERS-WEEK 12

|                   | 20. 60        | <b>19.</b> 30° | , 5p, 5p      | p, 10p or 20p, 10p. | <b>18.</b> 10p, 10p, 10 |
|-------------------|---------------|----------------|---------------|---------------------|-------------------------|
|                   | 17.400        | <b>16.</b> 80% | 15.9          | <b>14.</b> 53       | <b>13.</b> 3p           |
| <b>12.</b> 7:50   | <b>11.</b> 31 | 10. 9          | 9. 69         | <b>8.</b> 6204      | <b>7.</b> 8:15 pm       |
| 6. $\frac{7}{10}$ | <b>5.</b> 94% | 4. North-east  | <b>3.</b> 36m | <b>2.</b> 15        | <b>1.</b> 20            |

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| mə 02 | .(4) | 24 cm | .(£  | 22 cm             | .(2  | mo 21 | .(1  |





# **EXTRA SUPPORT**

If you need help with completing your homework, please use the Mathswatch clips in the LOOK boxes first. If you are still stuck, speak to your class teacher.

If you need to contact the Head of Maths regarding any worries or concerns, you can contact Miss Pankhurst at:

### j.pankhurst@benjaminbritten.school

### **RESOURCES PROVIDED BY:**

MathsPad Dr Austin Maths Numeracy Ninjas Mr Carter Maths Miss B's Resources NRich Worksheet Works 10Ticks

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