

Benjamin Britten Academy of Music and Mathematics

MATHEMATICS HOMEWORK BOOKLET

Year 7 Book C 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>

CONTENTS

WEEK	HOMEWORK TITLE			
1	NUMERACY			
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6	ADD AND SUBSTRACT			
7	MATHSWATCH			
8	NUMERACY			
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12	NUMERACY			
13	PERIMETER			
14	MATHSWATCH			

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.

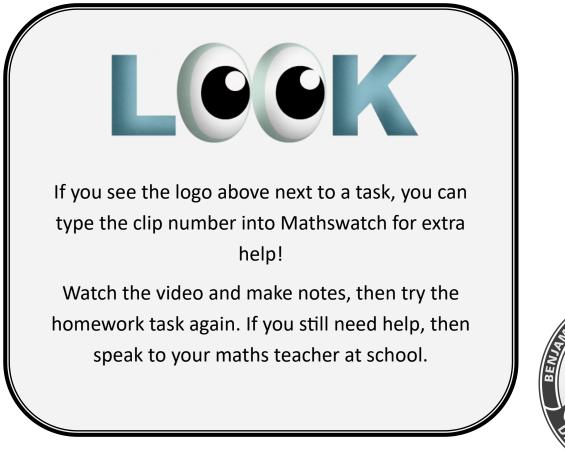
Username—firstnamelastname@benjamin Password—your DOB (format: monthDYYYY)

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

<u>Literacy challenge —</u> <u>Missing letters!</u>

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

A_D_T_ON

M_LTI_L_CAT_O_

ARI_H_ETI_

M	ENT	AL S	STR/	ATE	GIES	-	

do these in your head

TIMESTABLES – do these in your head

×	3	5	2	4	6
4					
2					
6					
3					
5					

Q	Question	Answer	Q	Question	Answer	Q	Question	Answer
1	2 + 3		1	2 × 9 = 🗆		1	61 × 31	
2	89 + 11		2	24 ÷ 3 = □		2	657 – 382	
3	What is half of		3	10 × □ = 80		3	7.2 × 94.2	
	6?		4	6 ÷ □ = 3		4	0.7 as a fraction	
4	125 – 10		5	1 × 2 = 🗆		5	46.15 + 5.08	
5	177 + 🗆 = 270		6	28 ÷ 7 = 🗆		6	(-40) ÷ (-4)	
6	53 = 23 + 🗆		7	□ × 6 = 54		7	If $a = 4 b = 3 and c = 1$,	
7	805 - 804		8	□ ÷ 2 = 5			what is the value of	
8	4 × 1 = 4, so 4 ÷ 4 = □		9	3 × 9 = □		8	3a – b ² ? 3 – (-5)	
9	Write 20:12 in		10	4 ÷ 4 = □		9	What is the highest	
	12 hour clock format		То	tal out of 10			common factor of 12 and 4?	
10	many minutes			LOOI		10	What is the value of 13 squared?	
	after 9:08 pm?			N15a, N16, N	$\overline{17b}$		Total out of 10	
•	Total out of 10		N	N10	~, /			

Problem solving!

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

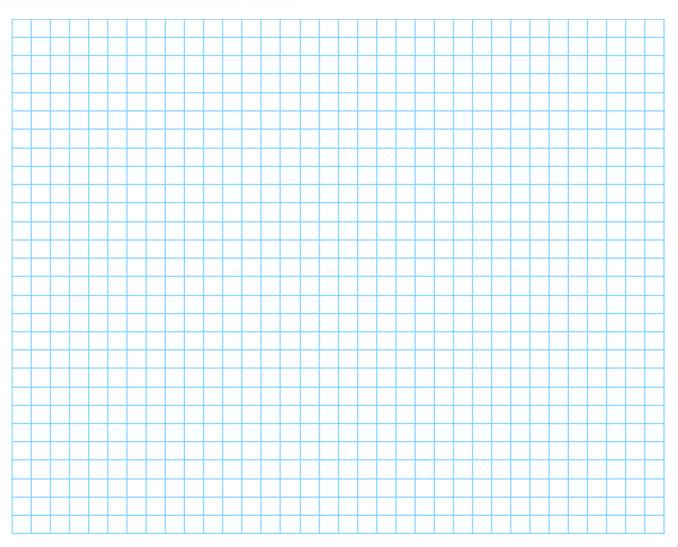
Two digits

Here are four digit cards.



Show all the different two-digit numbers that are bigger than 30 that you can make using these cards.

You can use the cards more than once.





N3



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.

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

Write a sentence describing what you have found.

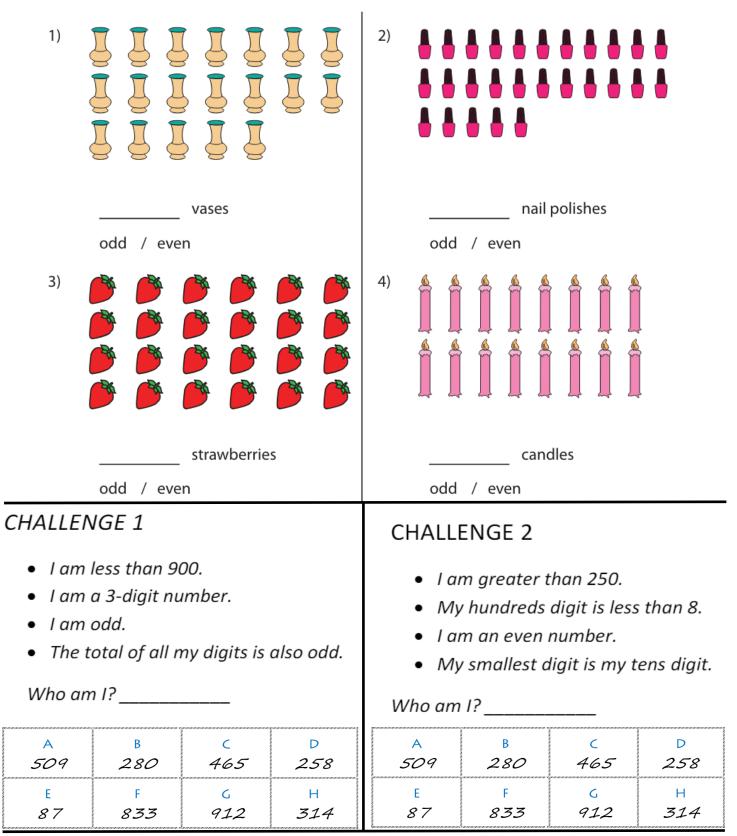
All even numbers are in the	times table. Therefore, all even
numbers are divisible by	

Problem solving!



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

Count the pictures. Classify the total as odd or even.





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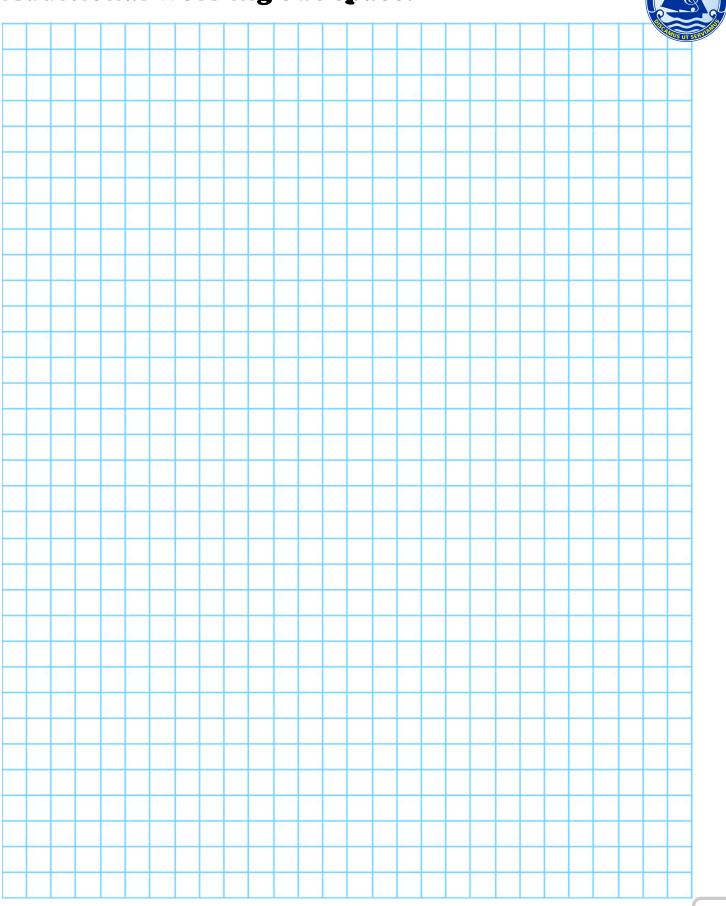
If you have any issues logging in, you <u>must</u> speak to your class teacher as soon as possible.

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:





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_SN
C_LC_L_TN
PRT NS

MENTAL STRATEGIES -

do these in your head

TIMESTABLES – do these in your head

×	2	4	6	3	5
4					
3					
5					
2					
6					

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

Q	Question	Answer	ſ
1	9 × 5 = □		
2	10 ÷ 2 = □		
3	8 × □ = 8		
4	16 ÷ □ = 4		
5	8 × 4 = □		
6	15 ÷ 3 = □		ſ
7	□ × 2 = 12		╞
8	□ ÷ 7 = 1		
9	5 × 8 = □		ľ
10	14 ÷ 2 = □		
Tot	al out of 10		
	N11, N230		

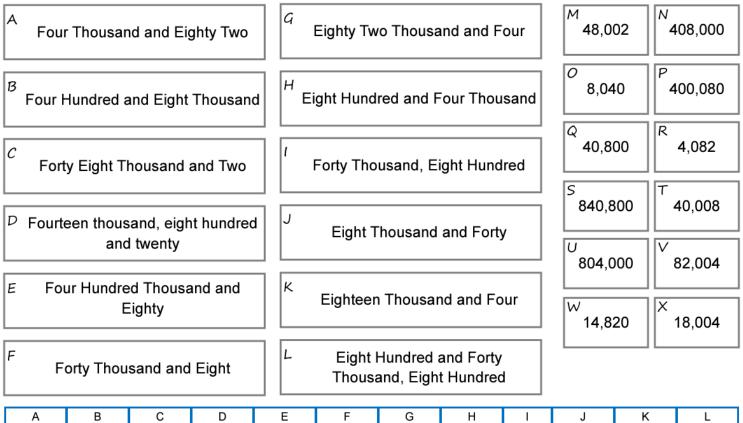
N25

r	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 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	

Problem solving!

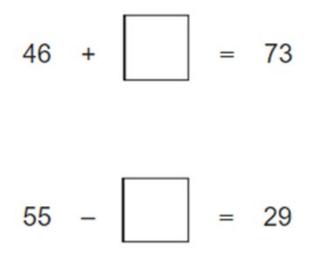
Apply your core skills to the challenge questions below...

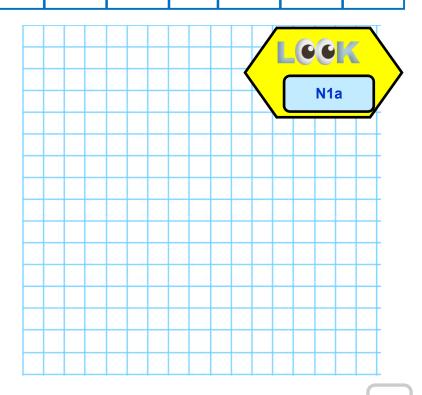
Match the words on the left with their partners on the right. Record your matching pairs in the table below.



Working out

Write the missing numbers.









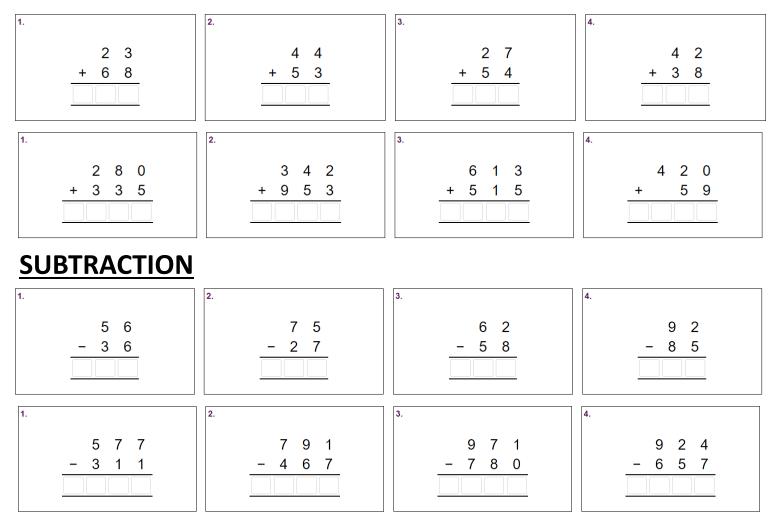
HOMEWORK 6: ADD AND SUBTRACT

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 =

ADDITION

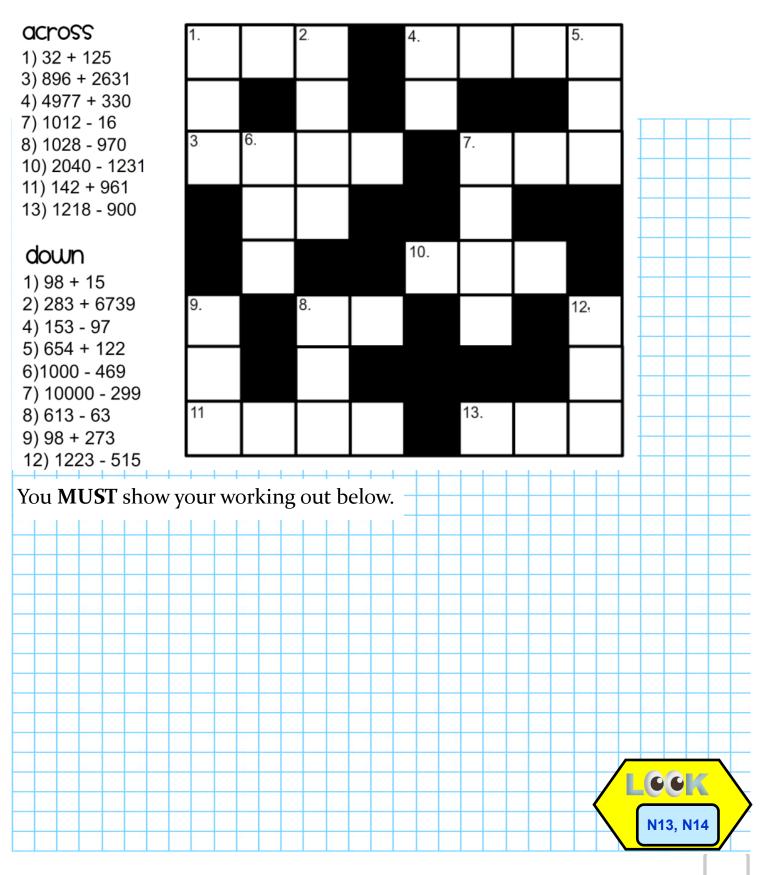


Problem solving!

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



HW





HOMEWORK 7: 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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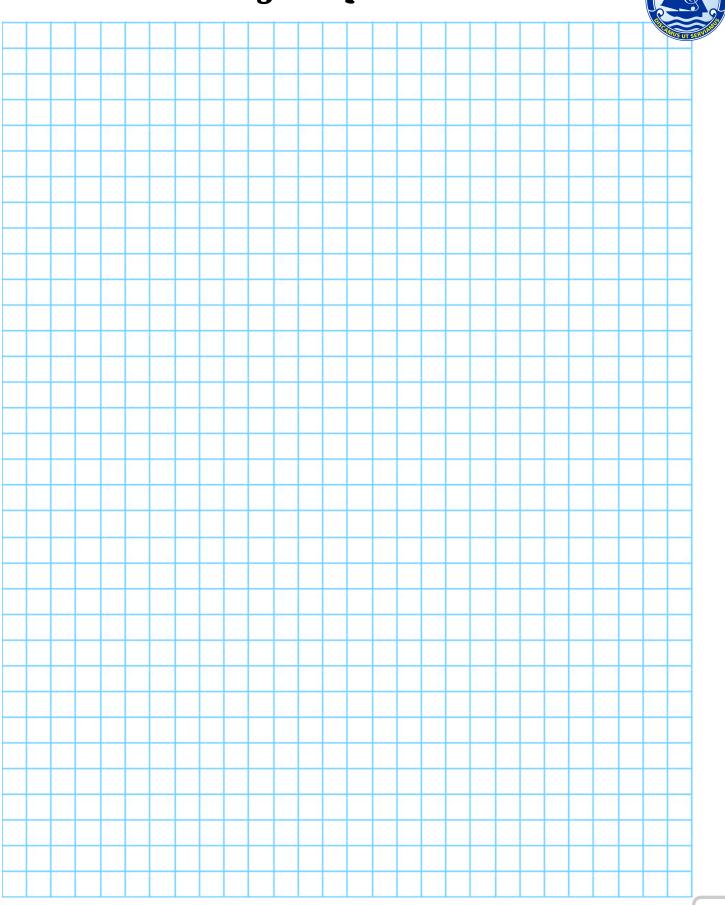
If you have any issues logging in, you <u>must</u> speak to your class teacher as soon as possible.

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:





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

×	5	3	6	4	2
5					
3					
2					
6					
4					

Q	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 56 ÷ 7 = □			
9	Write 1:58 pm in 24 hour clock format			
10	6:59 am is how many minutes after 6:19 am?			
•	Total out of 10			

σ	Question	Answer		
1	2 × 6 = 🗆			
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 = 🗆			
Tot	tal out of 10			
N3, N4, N5, N6				

Q	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 = 10, what is the value of bc / a ?	
8	(-10) – (-5)	
9	What is the highest common factor of 15 and 27?	
10	What is the value of 7 squared?	
	Total out of 10	

Problem solving!

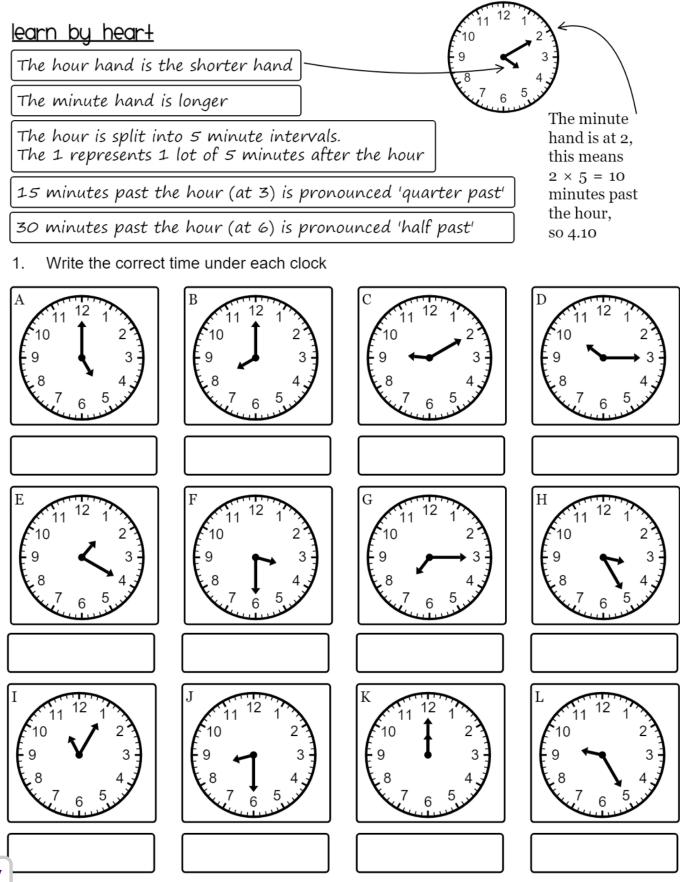
Apply your core skills to the challenge question below...



Here are the heights of five hills.	
Altmore 538m Heathmount 551m Slemish 499m Donard 542m Cley Hill 517m	$ \begin{array}{c} $
List the hills in order of size, starting with the smallest.	Put these bicycles in order of price, starting with the highest price
	highest lowest
Write these prices in order, starting with the smallest £6.30 £3.60 63p £0.36 £3.06	$\begin{bmatrix} A \\ \hline \\ \pounds 3,000 \\ \hline \\ \pounds 3,250 \\ \end{bmatrix} \begin{bmatrix} B \\ \hline \\ \pounds 2,199 \\ \hline \\ \pounds 2,800 \\ \hline \end{bmatrix}$
	Put these cars in order of price, starting with the lowest price
smallest largest	lowest highest
Arrange these temperatures in order, fro	om lowest to highest
0°C –20°C 6°C 17°C –	
lowest	highest

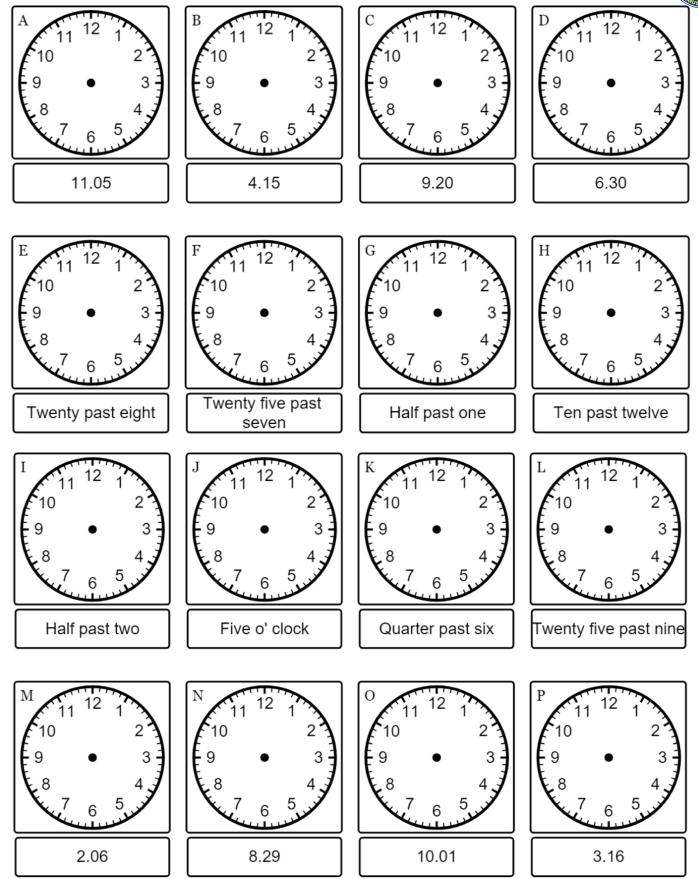


HOMEWORK 9: ANALOGUE CLOCK



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







HOMEWORK 10: RESEARCH TASK

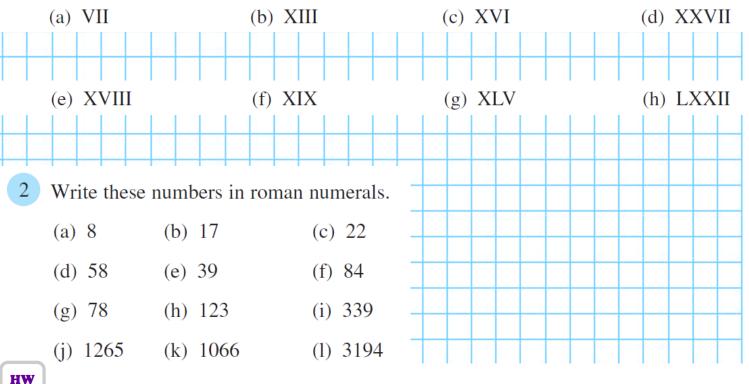
Roman Numerals

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.

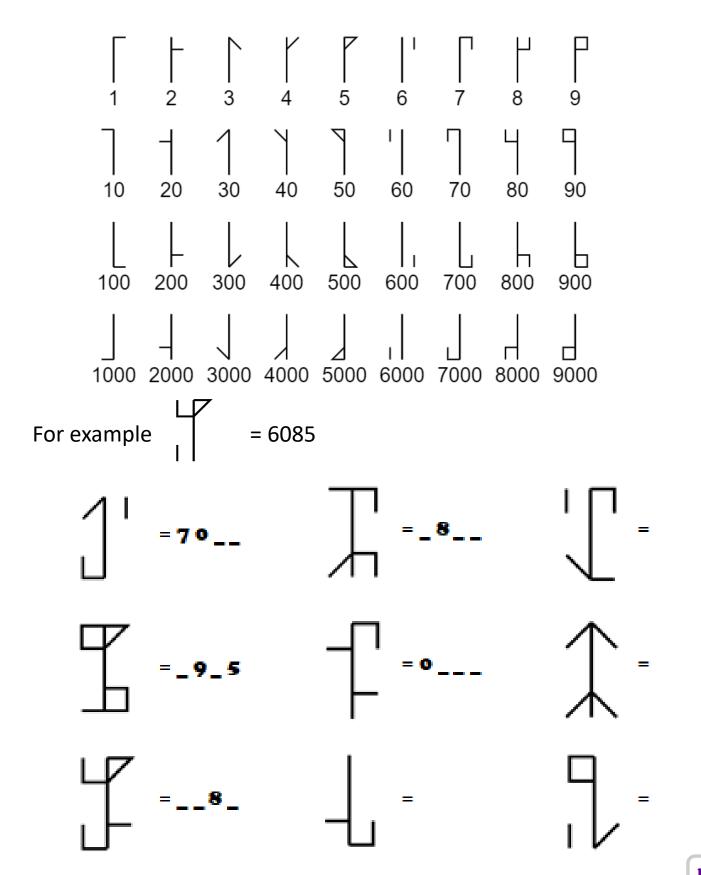
1	one	XI	eleven
Π	two	XII	twelve
III	three	XX	twenty
IV	four (one before five)	XXX	thirty
V	five	XL	forty (ten before fifty)
VI	six	L	fifty
VII	seven	LX	sixty
VIII	eight	С	hundred
IX	nine (one before ten)	СМ	nine hundred
Х	ten	М	thousand

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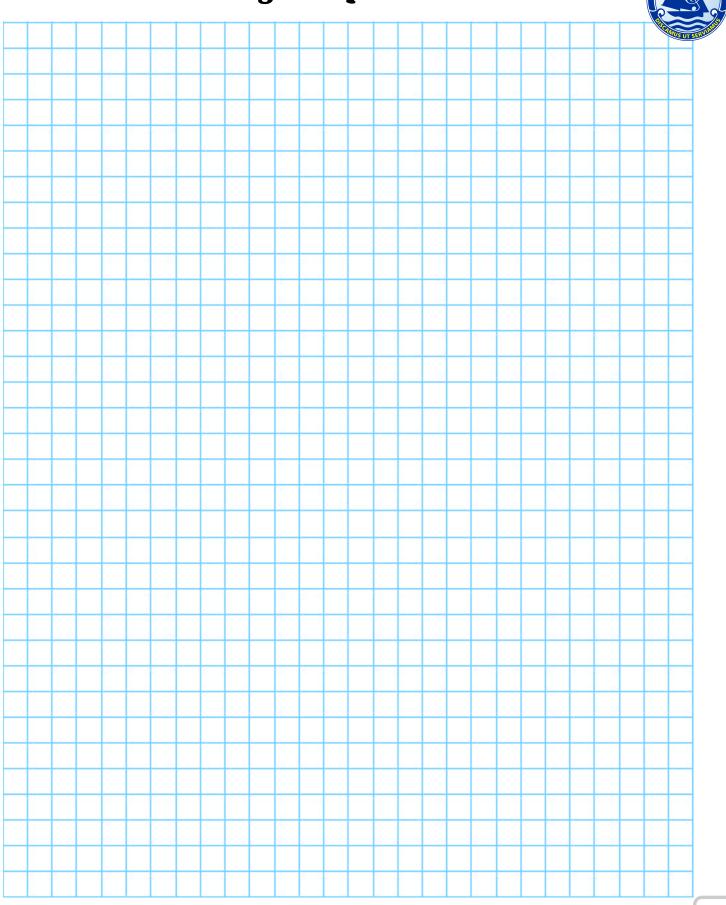
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If you need a printed copy of this homework task, make sure you speak to your class teacher <u>before</u> the due date and they will print a copy for you to complete.

Additional working out space:





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

T_M_ST_BL_S

×	4	3	2	5	6
6					
2					
4					
5					
3					

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

α	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 = □			
Total out of 10				

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 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	

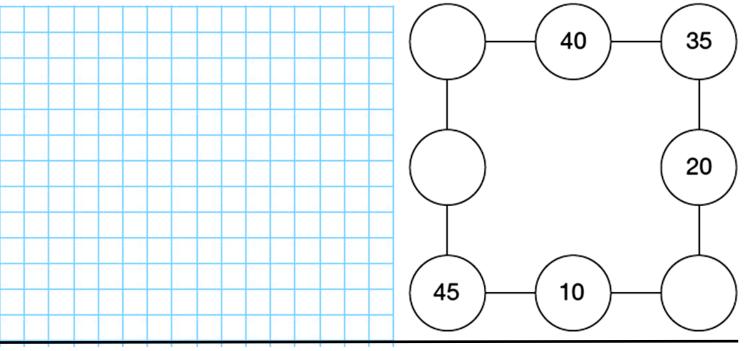
Problem solving!

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

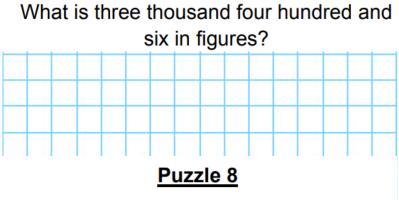
Circle totals

In the diagram, three circles in a straight line must add up to 100

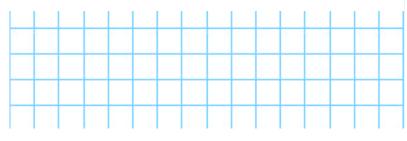
Write in the missing numbers.



Puzzle 7



Write 1 million and eighty three in figures.



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Puzzle 9

Complete these statements using the symbols =, >, <

0.40	0.400
0.35	0.300
0.2	0.25
1.5	1.05
1.8	1.80
0.01	0.1
0.99	0.999
	H





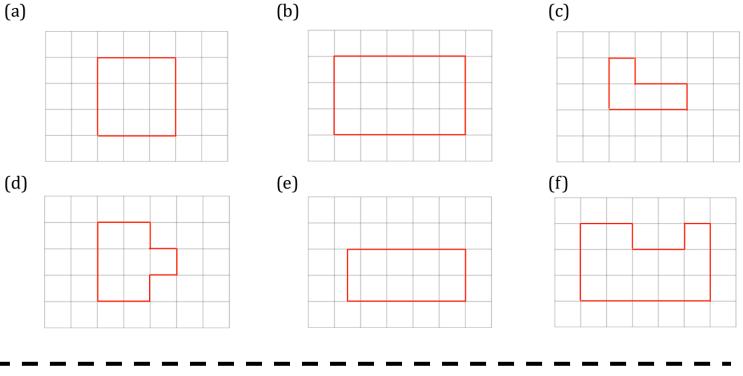
HOMEWORK 13: PERIMETER

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

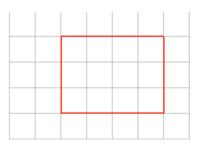
To calculate it, we add the lengths of all the sides together.

For the questions below, you can count the edges of the shapes.

Question 1: The following shapes are drawn on centimetre-squared paper. Find the perimeter of each shape.



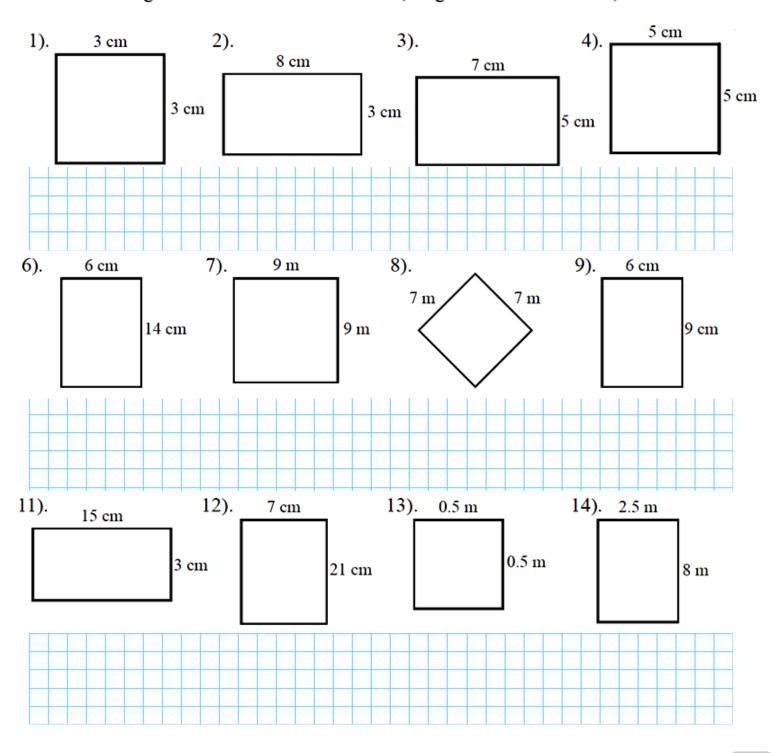
Jasmine says the perimeter of this shape is 12cm. Explain her mistake.



Problem solving!

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

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



LOCK

G9



HOMEWORK 14: MATHSWATCH



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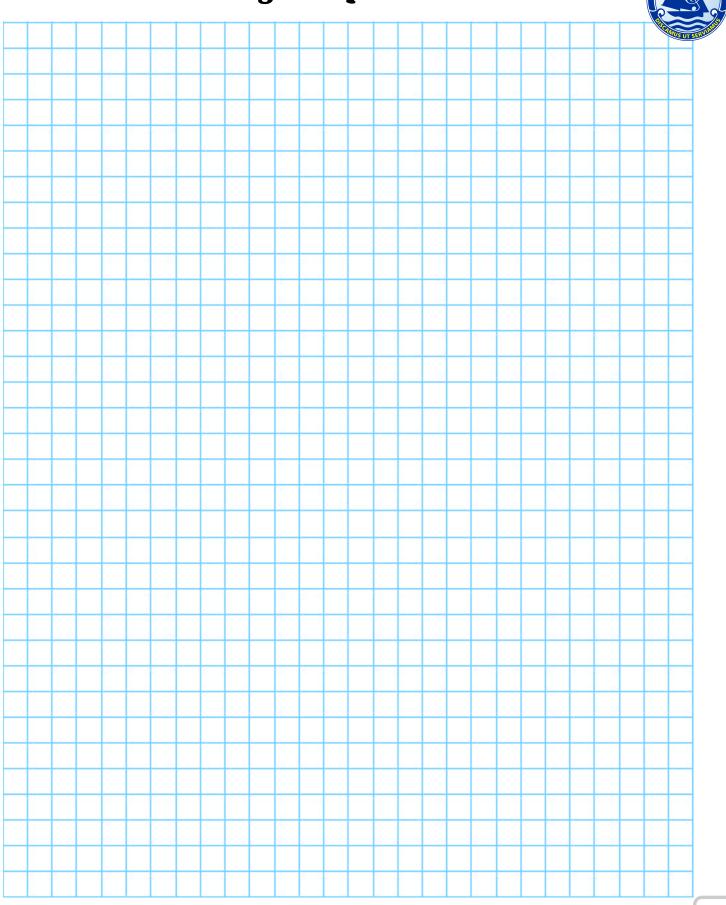
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Password— your DOB (format: monthDYYYY)

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Additional working out space:



83			
	69 l	What is the value of 13 squared?	01
82	4	What is the highest common factor of 12 and 4?	6
18	8	3 – (–2)	8
	8	If $a = 4 b = 3$ and $c = 1$, what is the value of $3a - b^2$?	L
	01	(†–) ÷ (0†–)	9
21.23 678.24 275		46.15 + 5.08	
		noitast a sa 7.0	4 3 5
		7.2 × 94.2	
		657 – 382	
I	1891	61 × 31	
er	wsnA	Question	g
	L.	$\Box = \flat \div \flat$	01
	22	□ = 6 × £	6
	01	□ ÷ 5 = 5	8
6 7		□ × 6 = 54	
	5	£ = □ ÷ 9	4
Answer 8 8 8		J0 × □ = 80	
		Question	ğ
			50
u	q S1:8	Write 20:12 in 12 hour clock format	6
	۱.	$\Box = 4 \div 4 \text{ os } 4 = 7 \times 4$	8
	L.	805 – 804	
	30	23 = 53 + □	
	63	177 + 🗆 = 270	G
	911	125 - 10	4
	3	Vhat is half of 6?	3
	001	LL + 68	2
	9	5 + 3	l
er	wenA	Question	g

ANSWERS-WEEK 1

eg, for 2m accept
euopuog
betseqer stigib diven with algits repeated
• 35' 33' 34' 41' 45
Gives at least four correct two-digit numbers even if there are other errors eg
31, 32, 34, 41, 42, 43 in any order
Gives all six correct two-digit numbers with no errors, ie

[7	1

τ

z

	Missing letters!
—	Literacy challenge

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

NOITIOA

NULTIPLACATION

ARITHMETIC

30	50	ΟŢ	52	ST	S
81	77	9	ST	6	3
98	54	77	30	8T	9
77	8	4	OT	9	ζ
54	9T	8	50	77	4
9	4	7	S	8	×

· 31' 35' 34' 31' 41' 45' 43

Correct number(s) repeated

· 31' 35' 33' 34' 41' 45' 43' 44

eg, for 2m accept

gnore

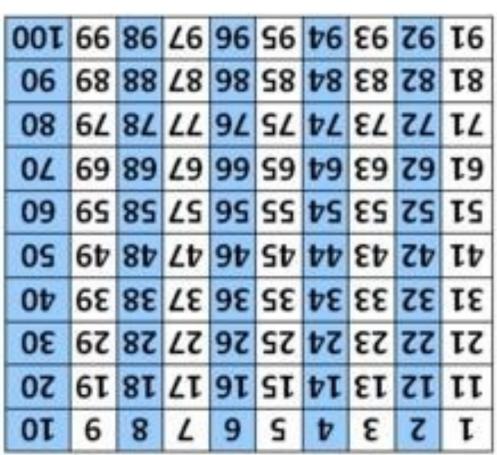
i

Write a sentence describing what you have found.

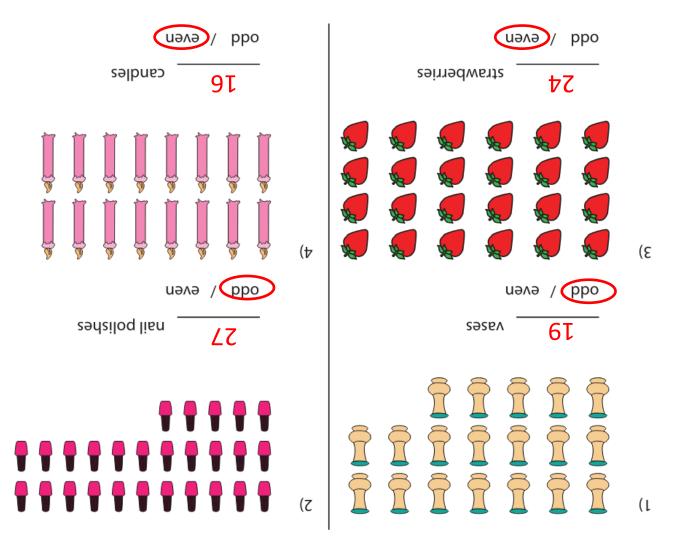
All even numbers are in the two times table. Therefore, all even

numbers are divisible by two .





ANSWERS-WEEK 2



Count the pictures. Classify the total as odd or even.

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D)	B	∀	D	7	B	∀
 I am greater than 250. Mho am I? Mho am I? 				 I am less than 900. I am a 3-digit number. The total of all my digits is also odd. The am l? 			
CHALLENGE 2						T JOI	CHALLEN

Senedisotana 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.

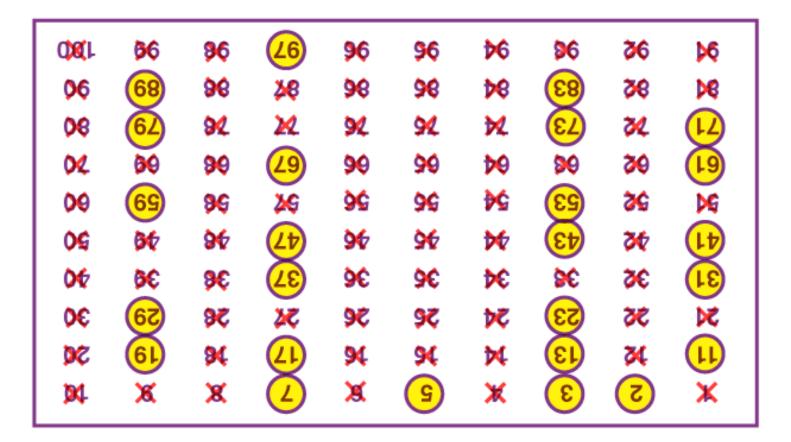
5) What two nicknames was Eratosthenes given?

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

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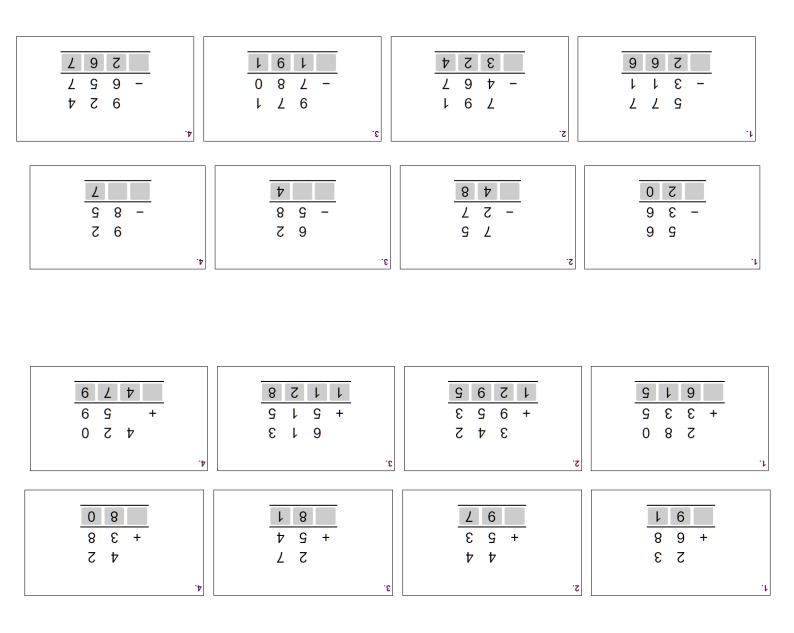


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you fill the blanks?	261	66 + 86	G	
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		Difference between 4 and -4	۰ ۷	
-	90 85	See number line What is the lowest common multiple of 4 and	8	
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	3 82	What is the cube root of 27?	01	

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ANSWERS-WEEK 6



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Literacy challenge:	

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What is the value of 7 squared?

What is the highest common factor of 15 and

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pc/g/

ANSWERS-WEEK 8

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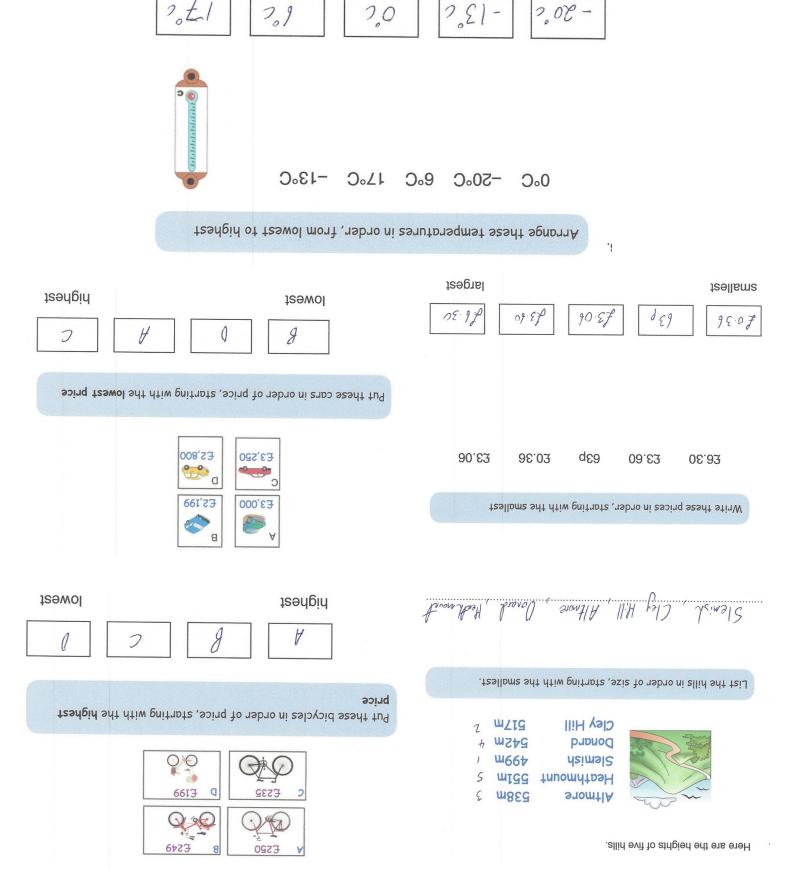
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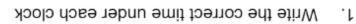
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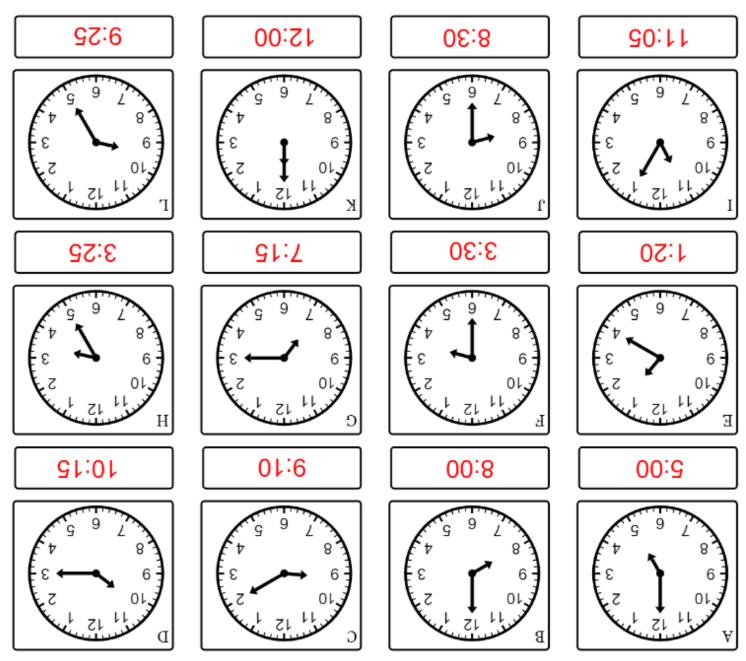


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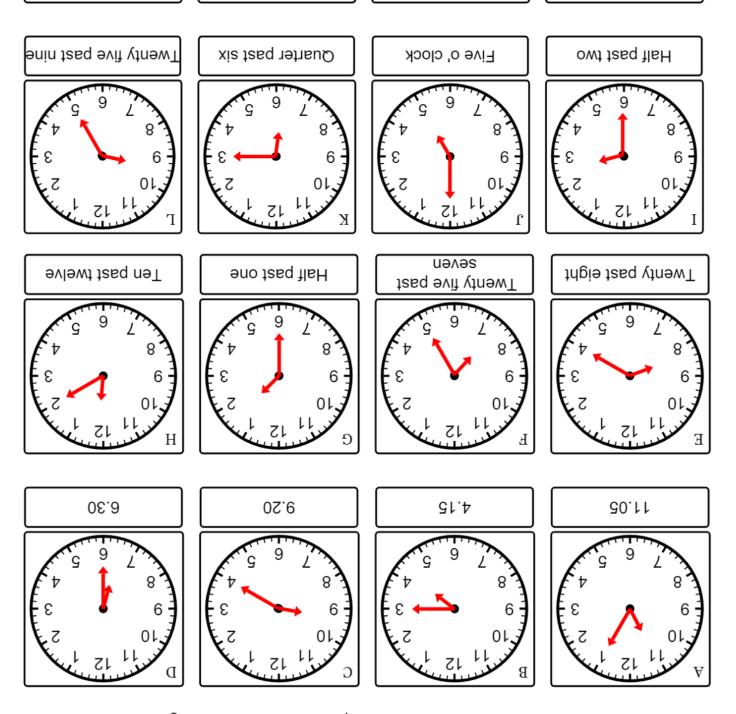
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2. On each clock draw the hands in the correct place to show the time given

			(I) MMMCXCIA	IVXJM (¥)
(J) MCCLXV	(i) CCCXXXIX	(h) CXXIII	IIIVXXJ (g)	VIXXXJ (1)
XIXXX (ə)	IIIVJ (b)	IIXX ())	IIVX (d)	2. (a) VIII

	7L (Y)	C4 (g)
01 (Ì)	81 (s)	(p) 51
91 (ɔ)	EI (d)	1. (a) 1

<u>Cistercian Numerals!</u>

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

	Stob eft the dot?	
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14' 58' 45' 28	List the first 4 multiples of 14	6
42	See number line	8
6-	Which is the lowest number, 3 or -9?	L
01/6	Write 63/70 in its simplest form	9
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968	5688 ÷ 3	ŀ
Tewara	Question	Ø
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40	≠=01÷□	8
9	□ × 4 = 24	L
4	32 ÷ 8 = □	9
22	□ = 2 × 6	g
3	9 = □ ÷ 81	4
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L	ן4 ÷ 2 = □	2
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Answer	Question	Ø
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۵.۲۲	Halve 35	3
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J9W2nA	Question	Ø

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18 JZ 9 6 17 3 30 52 10 JZ 50 S 54 50 77 t 8 9T 17 JO 7 9 8 7 36 30 9 17 18 54

Ζ

TIMESTABLES

DECIMALS

3 Q U A R E

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

Literacy challenge: Missing vowels!

3

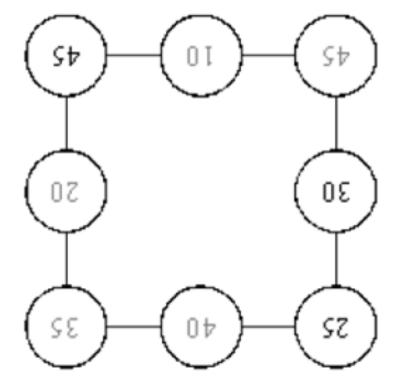
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ANSWERS-WEEK 12

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Complete these statements using the symbols

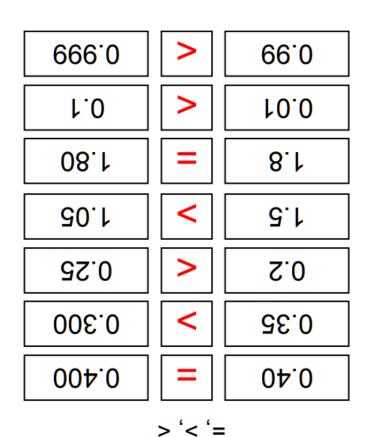
7 əlzzuq

What is three thousand four hundred and six in figures? 3406

<u>8 əlzzu</u>

Write 1 million and eighty three in figures.

£80,000, f



ANSWERS-WEEK 13

Area was counted instead of perimeter

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mɔɛt (ə) mɔઽt (b) mɔ0t (ɔ) mɔət (d)

mɔ&Ĺ (†)

Question 1

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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 Corbett Maths Numeracy Ninjas Mr Carter Maths Miss B's Resources NRich Worksheet Works 10Ticks

