

*Benjamin Britten Academy of Music and Mathematics*

# MATHEMATICS HOMEWORK BOOKLET

**Year 7 Book C**  
**AUTUMN TERM**



**NAME:**



## **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 speak to your teacher before the due date

## **CONTENTS**

WEEK	HOMEWORK TITLE
1	Numeracy
2	Adding and subtracting
3	Research task
4	Numeracy
5	Perimeter
6	Mathswatch
7	Numeracy
8	Multiplying and dividing
9	Real life maths
10	Numeracy
11	Area of 2D shapes
12	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.

### **Mathswatch**

***Username—firstnamelastname@benjamin***

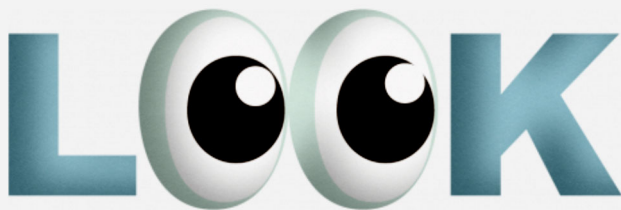
***Password—your DOB (format: monthDYyyy)***

## **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.

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



If you see the logo above next to a task, you can type the clip number into Mathswatch for extra help!

Watch the video and make notes, then try the homework task again. If you still need help, then speak to your maths teacher at school.





# HOMWORK 1: NUMERACY

## Literacy challenge – Missing letters!

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

A \_ D \_ T \_ O N

M \_ L T I \_ L \_ C A T \_ O \_

A R I \_ H \_ E T I \_

## Recall and Recap

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

**TIMESTABLES -**  
do these in your head

**Quick maths! Just 5 mins...go!**

	★
A1	$6 \times 9$
A2	$9 - 2$
A3	$2 - 0$
A4	$4 + 10$
A5	$4 \times 7$
A6	$8 - 4$
A7	$8 + 10$
A8	$8 \times 10$
A9	$7 \times 5$
A10	$2 \times 8$

Q	Question	Answer
1	$2 + 3$	
2	$89 + 11$	
3	What is half of 6?	
4	$125 - 10$	
5	$177 + \square = 270$	
6	$53 = 23 + \square$	
7	$805 - 804$	
8	$4 \times 1 = 4$ , so $4 \div 4 = \square$	
9	Write 20:12 in 12 hour clock format	
10	9:37 pm is how many minutes after 9:08 pm?	
<b>Total out of 10</b>		

Q	Question	Answer
1	$2 \times 9 = \square$	
2	$24 \div 3 = \square$	
3	$10 \times \square = 80$	
4	$6 \div \square = 3$	
5	$1 \times 2 = \square$	
6	$28 \div 7 = \square$	
7	$\square \times 6 = 54$	
8	$\square \div 2 = 5$	
9	$3 \times 9 = \square$	
10	$4 \div 4 = \square$	
<b>Total out of 10</b>		







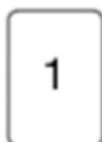
## **Problem solving!**

**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.

2 marks



## HOMWORK 2: ADDING AND SUBTRACTING

### **Recall and Recap: Numeracy skills**

- |                                    |                                    |                                    |
|------------------------------------|------------------------------------|------------------------------------|
| 1). $13 + 4 = \underline{\quad}$   | 2). $20 - 10 = \underline{\quad}$  | 3). $6 + 6 = \underline{\quad}$    |
| 4). $16 - 5 = \underline{\quad}$   | 5). $32 - 29 = \underline{\quad}$  | 6). $11 + 6 = \underline{\quad}$   |
| 7). $5 + 25 = \underline{\quad}$   | 8). $37 - 10 = \underline{\quad}$  | 9). $16 - 5 = \underline{\quad}$   |
| 10). $11 + 23 = \underline{\quad}$ | 11). $13 + 5 = \underline{\quad}$  | 12). $19 - 6 = \underline{\quad}$  |
| 13). $7 + 5 = \underline{\quad}$   | 14). $18 - 12 = \underline{\quad}$ | 15). $44 - 38 = \underline{\quad}$ |
| 16). $12 + 12 = \underline{\quad}$ | 17). $20 - 9 = \underline{\quad}$  | 18). $53 - 10 = \underline{\quad}$ |
| 19). $95 - 91 = \underline{\quad}$ | 20). $57 - 53 = \underline{\quad}$ | 21). $25 + 12 = \underline{\quad}$ |

Write your answers here:

### **Applying your skills**

Calculate  $63 + 38$

Bronze ★

Calculate  $63 - 38$

Bronze ★

**LOOK**

N13, N14

Find the difference between 804 and 357.

Bronze ★

Find the sum of 634 and 173.

Bronze ★

# Problem solving!

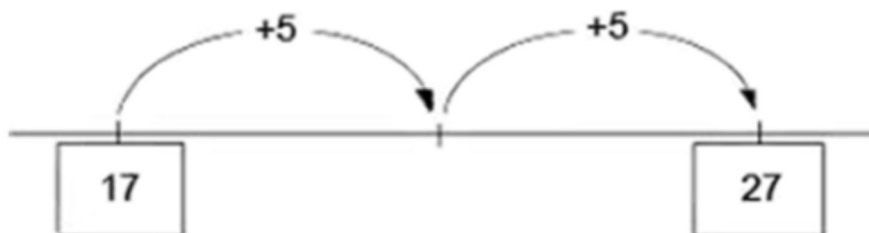
Apply your core skills to the challenge questions below...



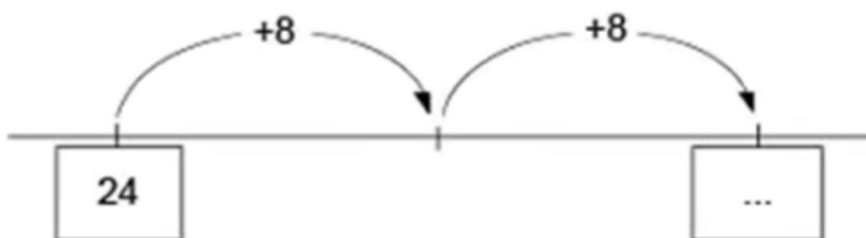
Two steps

This question is about making two steps on a number line.

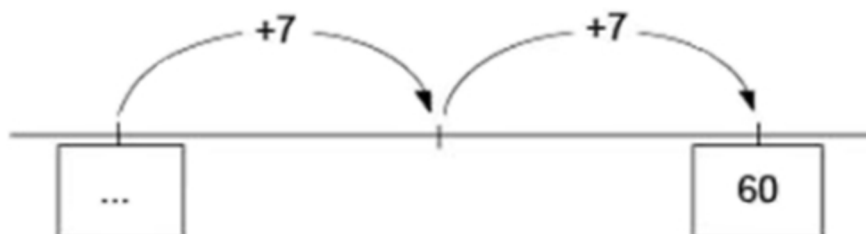
For example:



(a) Fill in the missing numbers on the number lines below.



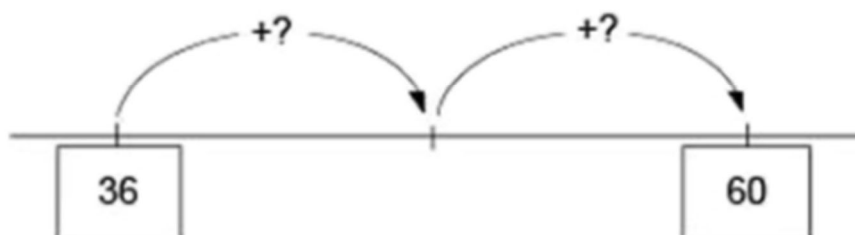
1 mark



1 mark

(b) On the number line below, both steps are the same size.

How big is each step?



1 mark



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

You will need to complete some research for this homework task. Try and find the answers for 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) Circle the first number (number 2). This number is **prime**.

2) Cross out 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) Circle 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) Circle the next number on your list that has not been crossed off yet– this should be the number 5. This number is **prime**.

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

7) Circle 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: NUMERACY

## Literacy challenge – Missing letters!

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

D \_ V \_ \_ ION

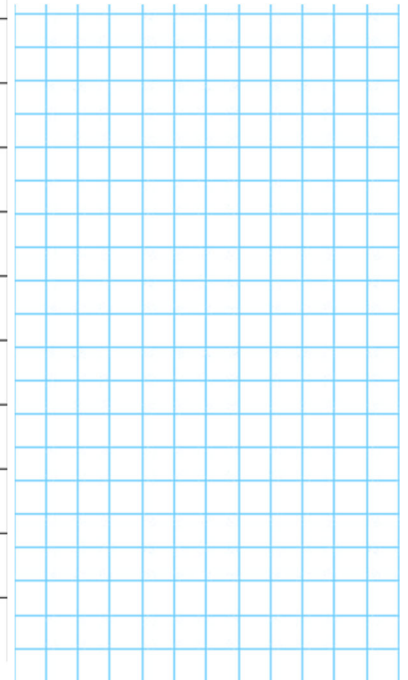
CA \_ C \_ LA \_ I \_ N

OP \_ RA \_ \_ O \_ S

## Recall and Recap

**Quick maths! Just 5 mins...go!**

	★
A1	$7 \times 10$
A2	$2 + 0$
A3	$15 \div 3$
A4	$10 \times 6$
A5	$7 \times 2$
A6	$3 + 6$
A7	$16 \div 4$
A8	$7 \times 4$
A9	$4 \times 9$
A10	$6 \times 7$



### MENTAL STRATEGIES -

do these in your head

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

### TIMESTABLES -

do these in your head

Q	Question	Answer
1	$9 \times 5 = \square$	
2	$10 \div 2 = \square$	
3	$8 \times \square = 8$	
4	$16 \div \square = 4$	
5	$8 \times 4 = \square$	
6	$15 \div 3 = \square$	
7	$\square \times 2 = 12$	
8	$\square \div 7 = 1$	
9	$5 \times 8 = \square$	
10	$14 \div 2 = \square$	
Total out of 10		





# Problem solving!

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



Working out

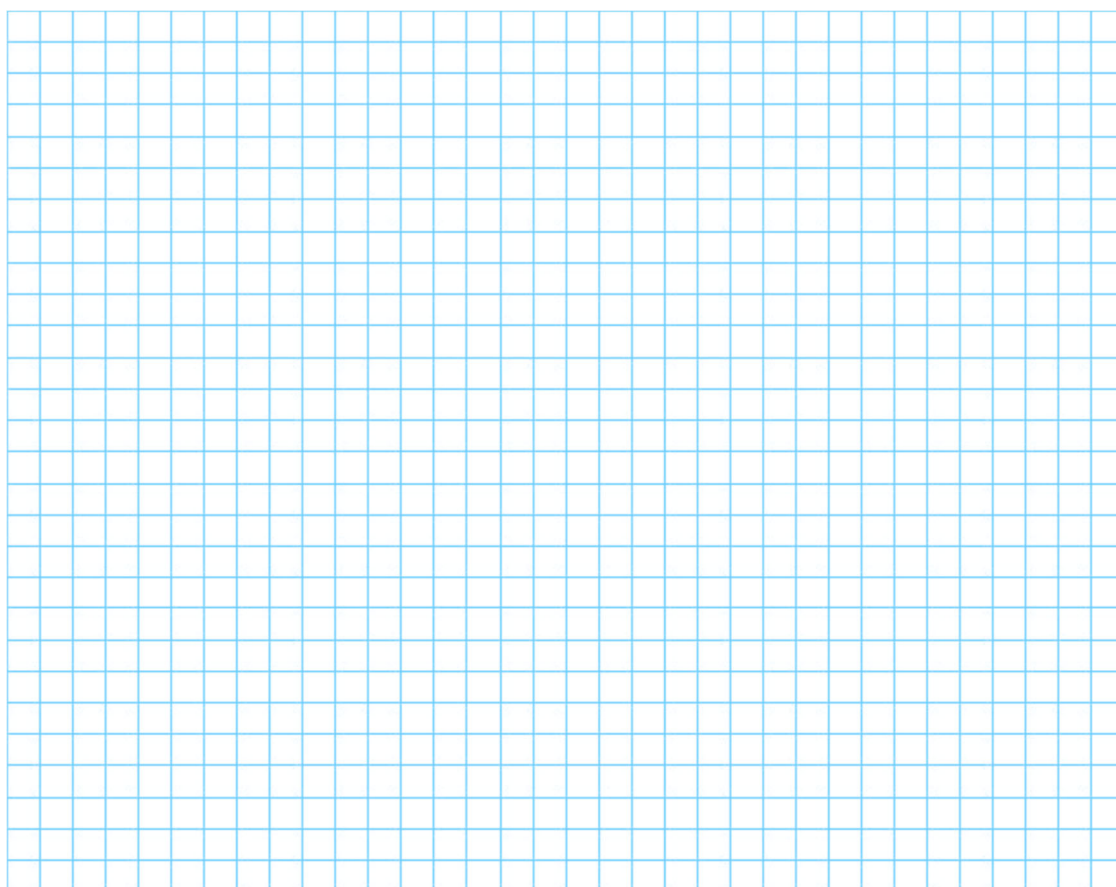
Write the missing numbers.

$$46 + \square = 73$$

1 mark

$$55 - \square = 29$$

1 mark







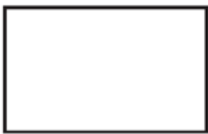
# HOMWORK 5: PERIMETER


## Recall and Recap: Perimeter problems


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


1).  3 cm


2).  8 cm 3 cm

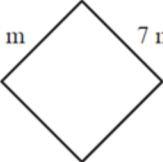
3).  7 cm 5 cm


4).  5 cm 5 cm


5).  9 cm 12 cm

6).  6 cm 14 cm

7).  9 m 9 m

8).  7 m 7 m


9).  6 cm 9 cm


10).  11 m 11 m


## Applying your skills

Bronze

Calculate the perimeter for each square:

Q1)  3m 3m

Q2)  6cm

Q3)  14m



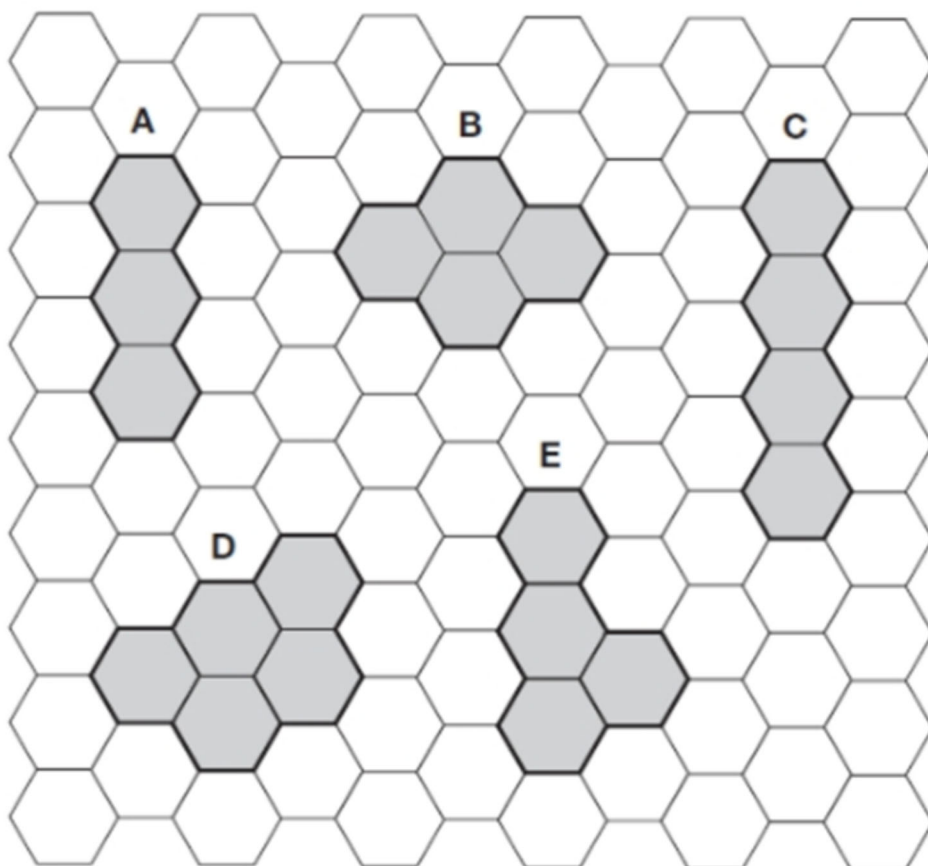


# Problem solving!

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



Here are five shapes on a regular grid.



Which shape has the longest perimeter?

1 mark

Which shape has only one line of symmetry?

1 mark



## HOMWORK 6: 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.

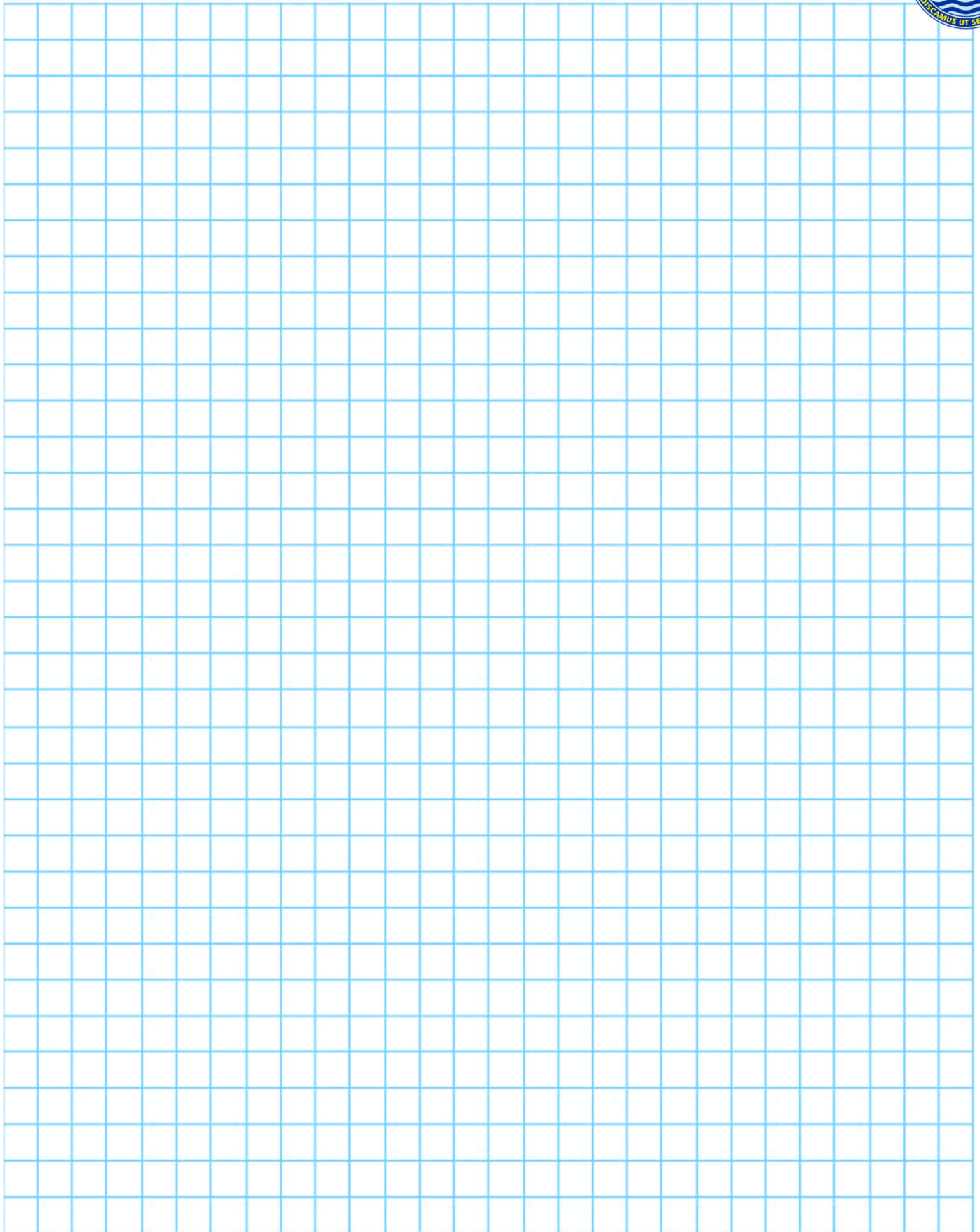
If you have any issues logging in, you must speak to your class teacher as soon as possible.

**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 before the due date and they will print a copy for you to complete.*

# Additional working out space:





# HOMWORK 7: NUMERACY

## Literacy challenge – Missing letters!

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

PL \_ C \_ VA \_ \_ E

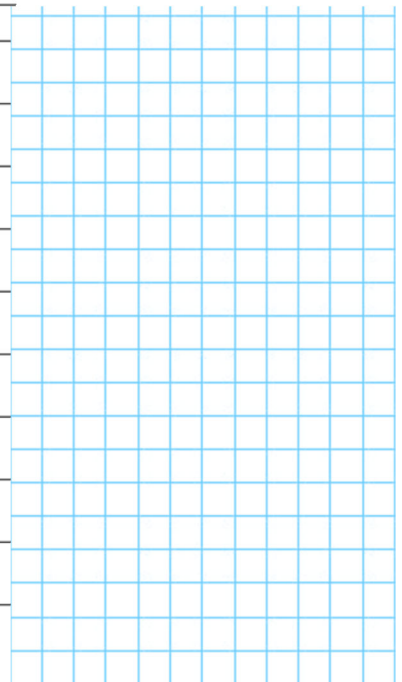
T \_ OU \_ \_ ND

SU \_ TR \_ CT \_ \_ N

## Recall and Recap

**Quick maths! Just 5 mins...go!**

	★
A1	$2 + 10$
A2	$1 + 1$
A3	$1 + 6$
A4	$8 + 8$
A5	$10 - 4$
A6	$6 \times 8$
A7	$2 \div 2$
A8	$16 \div 4$
A9	$8 \times 1$
A10	$7 + 6$



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

Q	Question	Answer
1	$1 + 4$	
2	$19 + 81$	
3	Halve 2	
4	$42 - 10$	
5	$124 + \square = 200$	
6	$84 = 34 + \square$	
7	$925 - 920$	
8	$7 \times 8 = 56$ , so $56 \div 7 = \square$	
9	Write 1:58 pm in 24 hour clock format	
10	6:59 am is how many minutes after 6:19 am?	
<b>Total out of 10</b>		

**TIMESTABLES -**  
do these in your head

Q	Question	Answer
1	$2 \times 6 = \square$	
2	$8 \div 2 = \square$	
3	$1 \times \square = 10$	
4	$10 \div \square = 1$	
5	$9 \times 7 = \square$	
6	$5 + 5 = \square$	
7	$\square \times 8 = 72$	
8	$\square \div 8 = 3$	
9	$2 \times 4 = \square$	
10	$18 \div 6 = \square$	
<b>Total out of 10</b>		





# Problem solving!

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



## Missing numbers

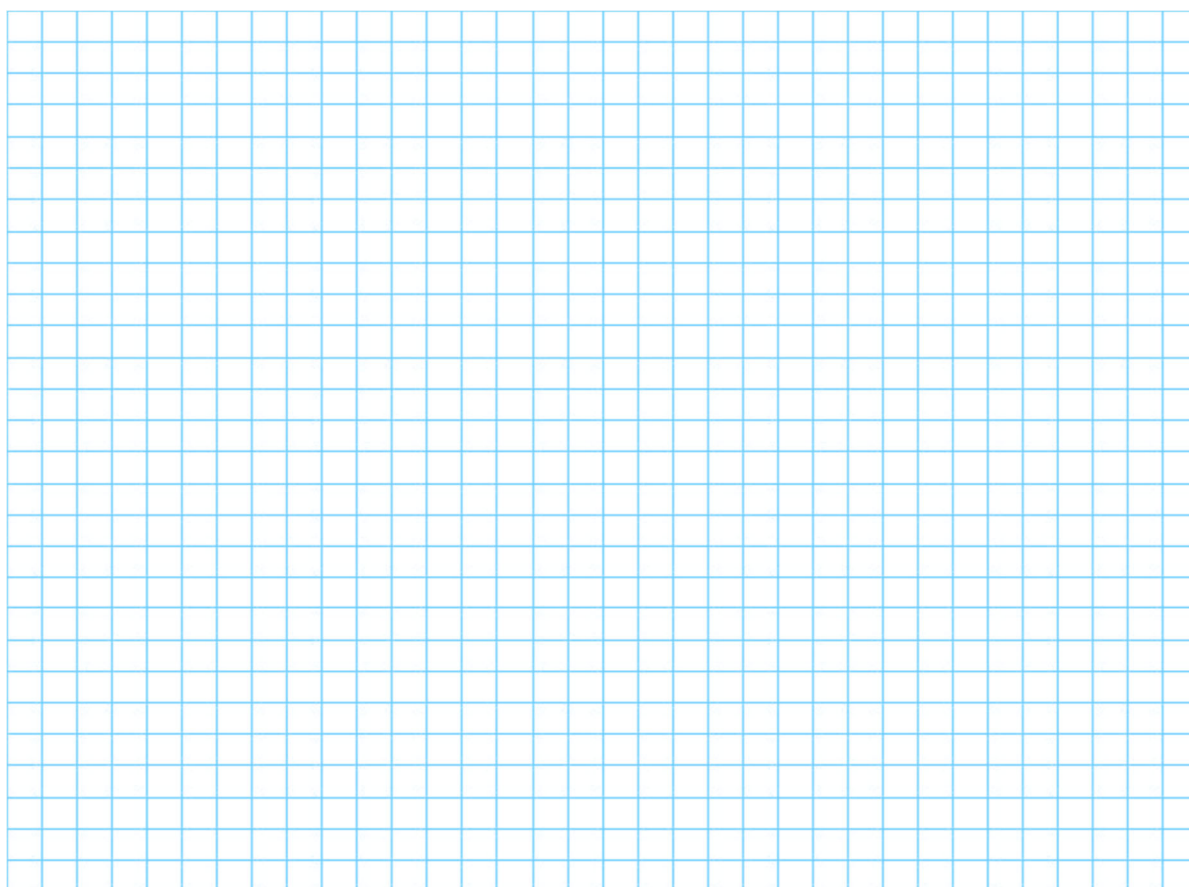
Write the missing numbers in the boxes.

*Challenge*  $79 + 85 = \square$

1 mark

*Challenge*  $36 + \square = 90$

1 mark





# HOMWORK 8: MULTIPLYING AND DIVIDING

## Recall and Recap: Core skills

Solve the sum and write the answer in words in the space provided.  
Now search for the words in the answer grid below. The answer may be in any direction!!

The first one has been done for you.

- |                      |                 |                       |       |
|----------------------|-----------------|-----------------------|-------|
| 1). $10 \div 5 =$    | _____ TWO _____ | 16). $3 \times 9 =$   | _____ |
| 2). $5 \times 2 =$   | _____           | 17). $15 \div 5 =$    | _____ |
| 3). $3 \times 5 =$   | _____           | 18). $4 \times 7 =$   | _____ |
| 4). $2 \times 10 =$  | _____           | 19). $6 \times 10 =$  | _____ |
| 5). $5 \times 6 =$   | _____           | 20). $36 \div 4 =$    | _____ |
| 6). $4 \times 3 =$   | _____           | 21). $5 \times 7 =$   | _____ |
| 7). $8 \times 2 =$   | _____           | 22). $3 \times 12 =$  | _____ |
| 8). $3 \times 6 =$   | _____           | 23). $9 \times 5 =$   | _____ |
| 9). $20 \div 5 =$    | _____           | 24). $10 \times 8 =$  | _____ |
| 10). $5 \times 5 =$  | _____           | 25). $12 \times 4 =$  | _____ |
| 11). $50 \div 10 =$  | _____           | 26). $5 \times 11 =$  | _____ |
| 12). $2 \times 11 =$ | _____           | 27). $10 \times 10 =$ | _____ |
| 13). $4 \times 6 =$  | _____           | 28). $28 \div 4 =$    | _____ |
| 14). $40 \div 5 =$   | _____           | 29). $8 \times 4 =$   | _____ |
| 15). $10 \times 4 =$ | _____           | 30). $18 \div 3 =$    | _____ |

~~T~~ ~~W~~ ~~O~~ A T H I R T Y T W O E B K C T  
 W W G L W D K P A Q W C G I C L W N  
 E A E K E I G H T C E J V G A E M E  
 N C D N N G L J M Q N D P H N I N E  
 T W E N T Y T W O P T A Q T A G I T  
 Y C N A Y Y D H A N Y W Y Y W H N X  
 E K E J F G S B I V B F W Q P T E I  
 I A E L I C M E G R O F I B G E B S  
 G C T B V D P M V U T C P V K E L C  
 H J F M E S I X R E Q Y N T E N A F  
 T H I R T Y F I V E N K S H K L S O  
 A L F C A M J C A P Q T J I A C E R  
 B T W E L V E L K B X H M R X B V T  
 D K A M Y B A P J Q M R G T M R E Y  
 F O R T Y E I G H T L E A Y U J N F  
 P C R B K D L B K J A E C O B K A I  
 A O N E H U N D R E D J F G T E N V  
 F J D S I X T Y C F I F T Y F I V E





## Problem solving!

Fill in the times table grids below:

X	2	6	4	7
3				
5		<b>30</b>		
2				
4				

X	5	2	4	3
6				
3				
2				
8				



Extension:

### Calculators

You can buy a new calculator for £1.25



In 1979 the same type of calculator cost **22 times** as much as it costs now.

How much did the same type of calculator cost in 1979?

Show your working.

£

2 marks



## HOMWORK 9: REAL LIFE MATHS

Everybody loves cake - like this cherry cake. Yum!

And another thing everybody likes is maths.

There's a surprising amount of overlap between these two activities - a lot of real-life maths involved in following a recipe.

The recipe given below is delicious and easy to make at home. If you want to use a different recipe or to bake bread, or cook your favourite meal, go for it!



Your teacher will tell you how they'd like you to present your work.

### Task:

1. Follow a recipe, either the one below or any of your own choice.
2. Make a note of all the maths involved.
3. Think of at least one mathematical question you could ask about the cooking you've done.
4. There are lots of examples of mathematical questions on the next page. Explore some of them as well as some of your own. They are graded from one to three cherries.



### Cherry and almond cake

#### Ingredients

175g self-raising flour

½ tsp baking powder

200g softened butter

200g caster sugar

4 eggs

85g ground almonds

½ tsp almond extract

300g glacé cherries

100ml milk

2tbsp flaked almonds

#### Method

Heat oven to 160°C (140°C fan, gas mark 3).

Rinse the cherries in hot water to remove the syrup, cut them in half and cover in flour to stop them sinking to the bottom of the cake.

Beat the butter and sugar together until light and fluffy.

Beat the eggs and add them in a little at a time.

Add in the almond extract.

Sieve the flour and baking powder and gently fold into the mixture with the ground almonds.

Mix in the cherries and the milk.

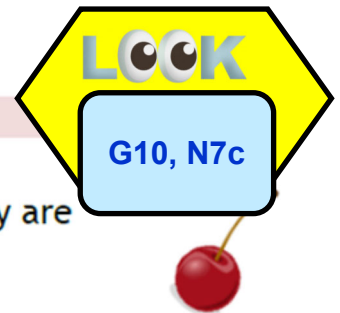
Put your mixture in a greased 20cm (7 inch) round tin. Bake for 1-1¼ hours.

Allow cake to cool before removing from its tin.





## Now solve the problems below:



### Cake baking maths questions:

Here are some examples of *cake maths* questions to have a go at. They are graded in difficulty from one to three cherries.

Ask your own questions too.

Consider how you are going to present your work to your teacher. You should include a photo of your cake, any calculations you have made, information you have researched and conclusions you have come to.

### Angles



Would you like an acute, obtuse or reflex sized slice of cake? Explain why.



Estimate the angle of the piece of cake in the photo.



How many slices of this size could I cut the whole cake in to?

### Money



Calculate the total cost of all the ingredients in this cake.



How much per slice?



# HOMWORK 10: NUMERACY

## Literacy challenge – Missing letters!

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

S \_ UA \_ E

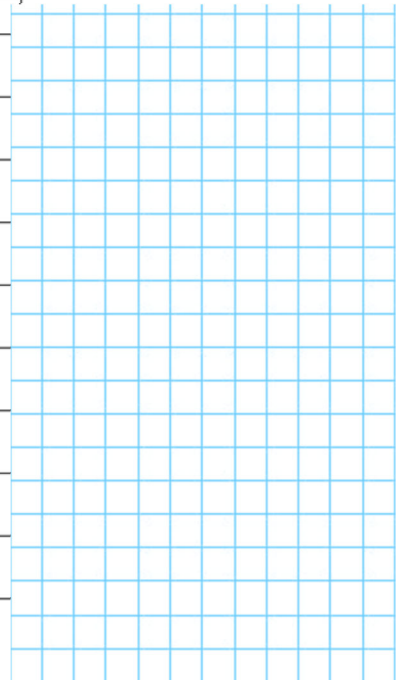
DE \_ IM \_ LS

S \_ BT \_ AC \_ ION

## Recall and Recap

**Quick maths! Just 5 mins...go!**

	★
A1	$6 \times 9$
A2	$8 \times 4$
A3	$9 - 2$
A4	$5 + 0$
A5	$3 + 8$
A6	$3 \div 1$
A7	$5 - 1$
A8	$10 \div 5$
A9	$7 + 2$
A10	$8 + 0$



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

Q	Question	Answer
1	$\square + 5 = 10$	
2	Double 3	
3	Halve 35	
4	$173 + 50$	
5	$47 + 44$	
6	$32 + 10 = 32 + 8 + \square$	
7	$1 + 566$	
8	$40 + 68 = 40 + 60 + \square$	
9	$3 + 2$	
10	$4 + \square = 20$	
<b>Total out of 10</b>		

**TIMESTABLES -**  
do these in your head

Q	Question	Answer
1	$6 \times 3 = \square$	
2	$14 \div 2 = \square$	
3	$6 \times \square = 36$	
4	$18 \div \square = 6$	
5	$9 \times 3 = \square$	
6	$32 \div 8 = \square$	
7	$\square \times 4 = 24$	
8	$\square \div 10 = 4$	
9	$4 \times 2 = \square$	
10	$30 \div 3 = \square$	
<b>Total out of 10</b>		





## Cistercian Numerals!

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

1	2	3	4	5	6	7	8	9
10	20	30	40	50	60	70	80	90
100	200	300	400	500	600	700	800	900
1000	2000	3000	4000	5000	6000	7000	8000	9000

**For example** = **6085**

	= <b>70</b> _ _		= _ <b>8</b> _ _		=
	= _ <b>9</b> _ <b>5</b>		= <b>0</b> _ _ _		=
	= _ _ <b>8</b> _		=		=



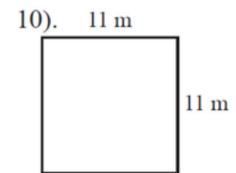
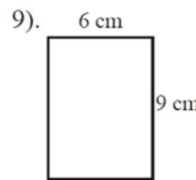
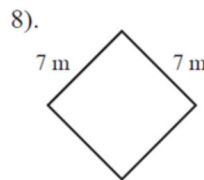
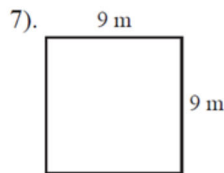
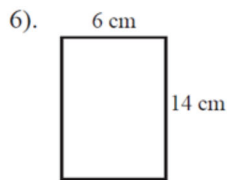
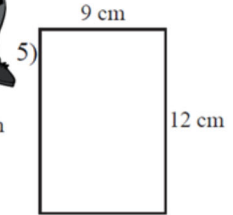
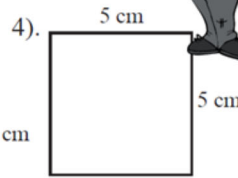
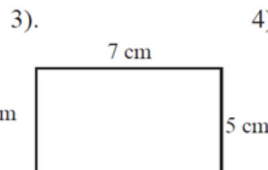
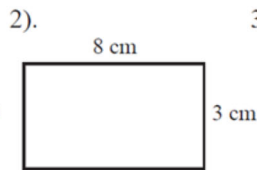
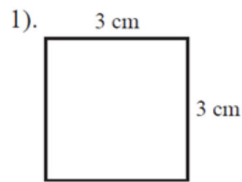
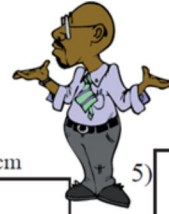
# HOMWORK 11: AREA OF 2D SHAPES

## Recall and Recap: Area problems



### Rectangles and Squares

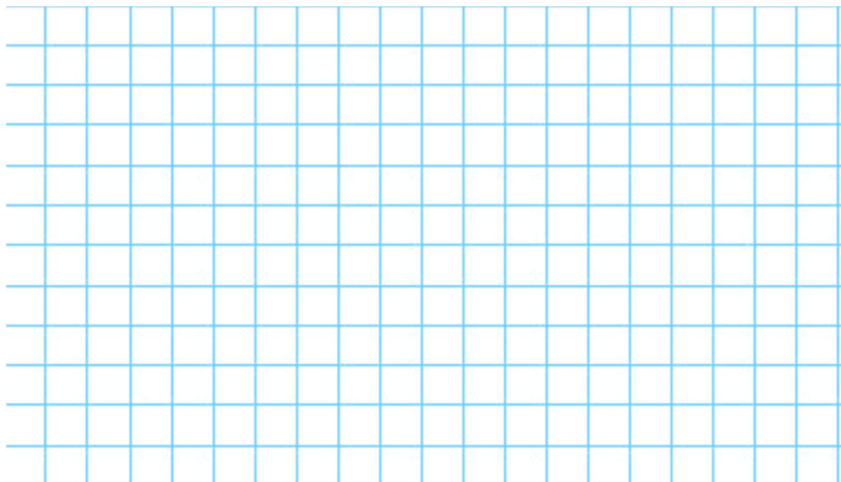
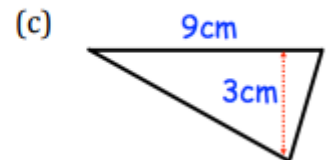
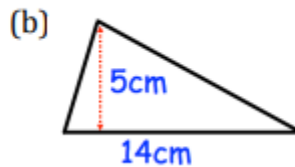
Find the area of the following rectangles and squares.  
Remember to give the units for each answer. (Diagrams are not to scale).



Area of a rectangle = base x height

Area of a triangle =  $\frac{1}{2}$  x base x height

Question 2: Find the area of each triangle.



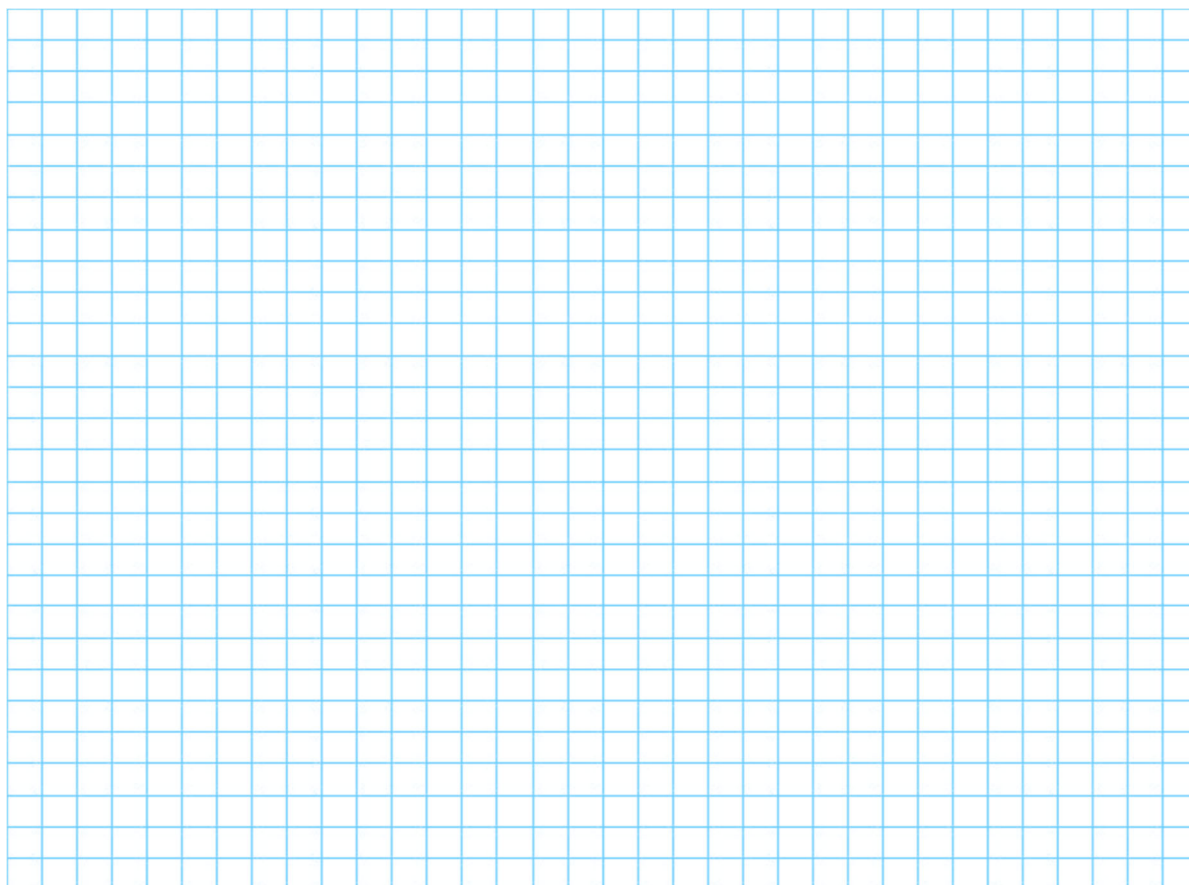
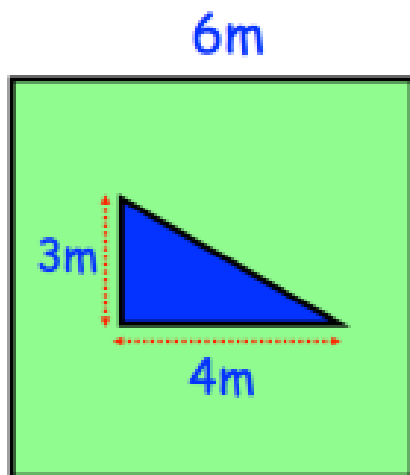
**Applying your skills**

## Problem solving!

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



Shown is a square garden with a triangular pond.  
Find the area of the garden that is grass.





## HOMWORK 12: 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 must 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 before the due date and they will print a copy for you to complete.*





# ANSWERS—WEEK 1

A1	54
A2	7
A3	2
A4	14
A5	28
A6	4
A7	18
A8	80
A9	35
A10	16

Q	Question	Answer
1	$2 \times 9 = \square$	18
2	$24 \div 3 = \square$	8
3	$10 \times \square = 80$	8
4	$6 \div \square = 3$	2
5	$1 \times 2 = \square$	2
6	$28 \div 7 = \square$	4
7	$\square \times 6 = 54$	9
8	$\square \div 2 = 5$	10
9	$3 \times 9 = \square$	27
10	$4 \div 4 = \square$	1

Q	Question	Answer
1	$2 + 3$	5
2	$89 + 11$	100
3	What is half of 6?	3
4	$125 - 10$	115
5	$177 + \square = 270$	93
6	$53 = 23 + \square$	30
7	$805 - 804$	1
8	$4 \times 1 = 4$ , so $4 \div 4 = \square$	1
9	Write 20:12 in 12 hour clock format	8:12 pm
10	9:37 pm is how many minutes after 9:08 pm?	29



ie Gives all six correct two-digit numbers with no errors,

31, 32, 34, 41, 42, 43 in any order

2

Gives at least four correct two-digit numbers even if there are other errors  
eg

• 32, 33, 34, 41, 42

*i* Number(s) given with digits repeated

Condone

eg, for 2m accept

• 31, 32, 33, 34, 41, 42, 43, 44

*i* Correct number(s) repeated

ignore

eg, for 2m accept

• 31, 32, 34, 31, 41, 42, 43

[2]

# ANSWERS—WEEK 2

- 1). 17
- 2). 10
- 3). 12
- 4). 11
- 5). 3
- 6). 17
- 7). 30
- 8). 27
- 9). 11
- 10). 34
- 11). 18
- 12). 13
- 13). 12
- 14). 6
- 15). 6
- 16). 24
- 17). 11
- 18). 43
- 19). 4
- 20). 4
- 21). 37

<p>★ Bronze</p> <p>Calculate <math>63 + 38</math></p> <p>101</p>	<p>★ Bronze</p> <p>Find the difference between 804 and 357.</p> <p><math>804 - 357 = 447</math></p>
<p>★ Bronze</p> <p>Calculate <math>63 - 38</math></p> <p>25</p>	<p>★ Bronze</p> <p>Find the sum of 634 and 173.</p> <p><math>634 + 173 = 807</math></p>

(a) 40  
 (b) 12

*i* Units given

Ignore

eg, accept

- 12 cm

*i* Step size shown on diagram

If unambiguous, but do not accept incorrect further working

eg, do not accept

- 12 shown correctly on the diagram, but 24 given as the answer

*i* Both step sizes shown

If unambiguous

eg, accept

- 12, 12
- 12 and 12

Do not accept if ambiguous

eg

- 12 + 12

1

1

[3]

1

# ANSWERS—WEEK 4

A1	★
A2	70
A3	2
A4	5
A5	60
A6	14
A7	9
A8	4
A9	28
A10	36
	42

Q	Question	Answer
1	$9 \times 5 = \square$	45
2	$10 \div 2 = \square$	5
3	$8 \times \square = 8$	1
4	$16 \div \square = 4$	4
5	$8 \times 4 = \square$	32
6	$15 \div 3 = \square$	5
7	$\square \times 2 = 12$	6
8	$\square \div 7 = 1$	7
9	$5 \times 8 = \square$	40
10	$14 \div 2 = \square$	7

Q	Question	Answer
1	$\square + 6 = 10$	4
2	What is double 5?	10
3	Half of 63	31.5
4	$26 + 30$	56
5	$98 + 99$	197
6	$22 + 10 = 22 + 8 + \square$	2
7	$3 + 223$	226
8	$20 + 61 = 20 + 60 + \square$	1
9	$\square + 3 = 5$	2
10	$\square + 2 = 20$	18

[2]

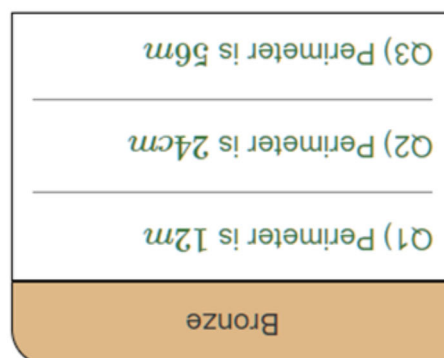
1

26

1

27

## ANSWERS—WEEK 5



- 1). 12 cm
- 2). 22 cm
- 3). 24 cm
- 4). 20 cm
- 5). 42 cm
- 6). 40 cm
- 7). 36 m
- 8). 28 m
- 9). 30 cm
- 10). 44 m

[2]

1

1

*Accept 18*

D (b)

C (a)

# ANSWERS—WEEK 7

Q	Question	Answer
1	$2 \times 6 = \square$	12
2	$8 \div 2 = \square$	4
3	$1 \times \square = 10$	10
4	$10 \div \square = 1$	10
5	$9 \times 7 = \square$	63
6	$5 \div 5 = \square$	1
7	$\square \times 8 = 72$	9
8	$\square \div 8 = 3$	24
9	$2 \times 4 = \square$	8
10	$18 \div 6 = \square$	3

Q	Question	Answer
1	$1 + 4$	5
2	$19 + 81$	100
3	Half 2	1
4	$42 - 10$	32
5	$124 + \square = 200$	76
6	$84 = 34 + \square$	50
7	$925 - 920$	5
8	$7 \times 8 = 56$ , so $56 \div 7 = \square$	8
9	Write 1:58 pm in 24 hour clock format	13:58
10	6:59 am is how many minutes after 6:19 am?	40

A1	12
A2	2
A3	7
A4	16
A5	6
A6	48
A7	1
A8	4
A9	8
A10	13



		54
[2]	1	164

## ANSWERS—WEEK 8

- 1). 2    2). 10    3). 15    4). 20    5). 30    6). 12    7). 16    8). 18  
9). 4    10). 25    11). 5    12). 22    13). 24    14). 8    15). 40    16). 27  
17). 3    18). 28    19). 60    20). 9    21). 35    22). 36    23). 45    24). 80  
25). 48    26). 55    27). 100    28). 7    29). 32    30). 6

Answers read from the top row downwards, left to right. The missing numbers are in bold.

1). 6 18 12 21 10 20 35 4 12 8 14 8 24 16 28

2). 30 12 24 18 15 6 12 9 10 4 8 6 40 16 32 24

1.

£ 27.50

or

Shows the digits 275

eg

- 27.5
- 2750
- 275

or

Shows a complete correct method for how to multiply 1.25 by 22, with not more than one computational error, but with the decimal point correctly positioned

eg

- $12.50 + 12.50 + 1.25 + 1.25$
- $11 \times 2.50 = 10 \times 2.50 + 2.50$

2750 (error)

$$\begin{array}{r} 2750 \\ 22 \\ \hline 2750 \end{array}$$

so 27.50

Do not accept conceptual error

eg

$$\begin{array}{r} 125 \\ \times 22 \\ \hline 250 \\ 250 \\ \hline 500 \end{array}$$

so 5.00

Method is repeated addition

For 1m, at least some multiplication must be shown or implied

eg, for 1m do not accept

- $1.25 + 1.25 + \dots$

2

1

# ANSWERS—WEEK 10

10	$30 \div 3 = \square$	10
9	$4 \times 2 = \square$	8
8	$\square \div 10 = 4$	40
7	$\square \times 4 = 24$	6
6	$32 \div 8 = \square$	4
5	$9 \times 3 = \square$	27
4	$18 \div \square = 6$	3
3	$6 \times \square = 36$	6
2	$14 \div 2 = \square$	7
1	$6 \times 3 = \square$	18
<b>Q</b>	<b>Question</b>	<b>Answer</b>

10	$4 + \square = 20$	16
9	$3 + 2$	5
8	$40 + 68 = 40 + 60 + \square$	8
7	$1 + 566$	567
6	$32 + 10 = 32 + 8 + \square$	2
5	$47 + 44$	91
4	$173 + 50$	223
3	Halve 35	17.5
2	Double 3	6
1	$\square + 5 = 10$	5
<b>Q</b>	<b>Question</b>	<b>Answer</b>

A1	★
A2	32
A3	7
A4	5
A5	11
A6	3
A7	4
A8	2
A9	9
A10	8

**Cistercian Numerals!**  
Cistercian numerals (going down): 7036, 1995, 7285,  
4817, 227, 2700, 3167, 4433, 6390

## ANSWERS—WEEK 11

Question 2  
(a)  $12\text{cm}^2$

(b)  $35\text{cm}^2$

(c)  $13.5\text{cm}^2$

- 1).  $9\text{ cm}^2$
- 5).  $108\text{ cm}^2$
- 9).  $54\text{ cm}^2$
- 13).  $0.25\text{ m}^2$
- 2).  $24\text{ cm}^2$
- 6).  $84\text{ cm}^2$
- 10).  $121\text{ m}^2$
- 14).  $20\text{ m}^2$
- 3).  $35\text{ cm}^2$
- 7).  $81\text{ m}^2$
- 11).  $45\text{ cm}^2$
- 15).  $22.75\text{ m}^2$
- 4).  $25\text{ cm}^2$
- 8).  $49\text{ m}^2$
- 12).  $147\text{ cm}^2$

**Apply**

Question 1 – 30m<sup>2</sup>

# 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](mailto:j.pankhurst@benjaminbritten.school)**

## RESOURCES PROVIDED BY:

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

