Benjamin Britten Academy of Music and Mathematics

## MATHEMATICS HOMEWORK BOOKLET

Year 8 Book A SPRING 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 speak to your teacher before the due date


## CONTENTS

| WEEK | HOMEWORK TITLE |
| :---: | :---: |
| $\mathbf{1}$ | Numeracy |
| $\mathbf{2}$ | Multiplying Fractions Recall |
| $\mathbf{3}$ | Mathswatch |
| $\mathbf{4}$ | Research Task |
| $\mathbf{5}$ | Percentages |
| $\mathbf{6}$ | Mathswatch |
| $\mathbf{7}$ | Numeracy |
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| 10 | Research Task |
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| 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.


## HOMEWORK 1: NUMERACY

Squaring means to multiply something by itself.
Square root is the inverse (opposite) of squaring.
Square $->3^{2}=3 \times 3=9$
Cube $\rightarrow 2^{3}=2 \times 2 \times 2=8$
Remember.. negative $\times$ negative $=$ positive

Example:
$(-5)^{2}$
$-5 \times-5=25$

| Silver |
| :--- |
| Q1) $\sqrt{25}$ |
| Q2) $\sqrt{81}$ |
| Q3) $-\sqrt{121}$ |
| Q4) $-\sqrt{49}$ |
| Q5) $\sqrt[3]{8}$ |
| Q6) $\sqrt[3]{216}$ |
| Q7) $-\sqrt[3]{64}$ |
| Q8) $-\sqrt[3]{27}$ |

Problem solving!
Apply your core skills to the challenge questions below...
Hint: start by listing the square and cube numbers that are less than or equal to 100.
This can also be written as $x \leq 100$.
square \& cube numbers puzzle
Using only square and cube numbers less than or equal to 100, can you fill in the circles to make these sums true? You can only use each number once and you must use all the numbers.


## HOMEWORK 2: FRACTION RECALL

STEP 1 STEP 2 STEP 3
Multiplying Fractions
$\frac{3}{4} \times \frac{2}{5}=\frac{3 \times 2}{4 \times 5}=\frac{6}{20} \stackrel{\text { simpune }}{\leftarrow}$

1) $\frac{1}{2} \times \frac{1}{3}$
2) $\frac{1}{8} \times \frac{2}{3}$
3) $\frac{4}{9} \times \frac{3}{5}$
4) $\frac{11}{12} \times \frac{8}{9}$
5) $\frac{2}{9} \times \frac{3}{5} \times \frac{6}{7}$
6) $\frac{2}{9} \times 4$


## Problem solving!

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

Alexis has a pet dog, Maxi.


Each day Maxi eats $\frac{2}{3}$ of a can of dog food.

How many cans of dog food should Alexis buy to last 12 days?


Find the area of this rectangle

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## Additional working out space:



## HOMEWORK 4: RESEARCH TASK

## The Königsberg Problem

In the $18^{\text {dh }}$ century, the city of Königsberg (in Prussia) was split into parts by the river Pregel. There were seven bridges.
The people of Königsberg tried to walk across all seven bridges without crossing the same bridge twice.

## RESEARCH:



A famous mathematician, Leonhard Euler, examined the Königsberg problem.
(a) Find out when Euler lived.
(b) Find out what Euler said about the Königsberg problem.
(c) Königsberg is now called Kaliningrad and is in Russia. Find out how many of the seven bridges still exist.


## Research task:

## Present your findings for the research task in the box below.

You could draw a poster, write a list of notes, create a storyboard...the options are endless!
$\square$

## HOMEWORK 5: PERCENTAGES

To find $50 \%$ :
divide by 2
To find $10 \%$ :
divide by 10
To find 1\%:
divide by 100
To find $20 \%$ :
$\times 10 \%$ by 2 To find $3 \%$ :
$\times 1 \%$ by 3

Section A

| Amount | $£ 120$ | $£ 16$ | $£ 4.40$ |
| :---: | :--- | :--- | :--- |
| $10 \%$ |  |  |  |
| $5 \%$ |  |  |  |
| $20 \%$ |  |  |  |
| $50 \%$ |  |  |  |
| $25 \%$ |  |  |  |
| $1 \%$ |  |  |  |

## Section B

1) Find $10 \%$ of $£ 14=$
2) Find $20 \%$ of $£ 50=$
3) Find $5 \%$ of $£ 28=$
4) Find $25 \%$ of $£ 8=$
5) Find $1 \%$ of $£ 130=$
6) Find $20 \%$ of $£ 6=$
7) Find $10 \%$ of $£ 33=$
8) Find $100 \%$ of $£ 11=$
9) Find $50 \%$ of $£ 54=$
10) Find $1 \%$ of $£ 270=$
11) Find $50 \%$ of $£ 12.80=$
12) Find $5 \%$ of $£ 6.40=$
13) Find $1 \%$ of $£ 199=$
14) Find $100 \%$ of $£ 7.21=$
15) Find $25 \%$ of $£ 16.80=$
16) Find $20 \%$ of $£ 8.90=$
17) Find $10 \%$ of $£ 0.36=$
18) Find $100 \%$ of $£ 0.99=$
19) Find $150 \%$ of $£ 1.60=$
20) Find $110 \%$ of $£ 2.20=$

## Problem solving!

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

1. Calculate $80 \%$ of 30
2. A bag of sugar contains 420 g .

A special offer packet contains an extra $15 \%$.
Work out how much extra sugar is in the special offer packet.
3. A new car is priced at $£ 7500$. In a sale it is reduced by $20 \%$.

Calculate the reduction in price.
$\qquad$

## HOMEWORK 6: MATHSWATCH



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## Additional working out space:

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## HOMEWORK 7: NUMERACY



## Section A

| Statement | True or False |
| :---: | :---: |
| $3<8$ |  |
| $2>10$ |  |
| $11<4$ |  |
| $4>3$ |  |
| $6<9$ |  |
| $13<14$ |  |


| Statement | True or False |
| :---: | :---: |
| $3>0$ |  |
| $6>2$ |  |
| $1>3$ |  |
| $6<2$ |  |
| $5>6$ |  |
| $0<10$ |  |

## Section B

| Statement | True or False |
| :---: | :---: |
| $5.7<5.2$ |  |
| $4.9>4.1$ |  |
| $9.0>9.3$ |  |
| $8.4<4.8$ |  |
| $7.6<7.6$ |  |
| $7.2>7.0$ |  |


| Statement | True or False |
| :---: | :---: |
| $0.3<0.5$ |  |
| $0.6>0.7$ |  |
| $0.05<0.06$ |  |
| $0.35>0.3$ |  |
| $0.62<0.6$ |  |
| $0.01<0.1$ |  |

## Section C

| Statement | True or False |
| :---: | :---: |
| $152.7<105.3$ |  |
| $25.9>56.7$ |  |
| $70.12>70.36$ |  |
| $5.42<4.57$ |  |
| $0.53<0.71$ |  |
| $0.24<0.78$ |  |


| Statement | True or False |
| :---: | :---: |
| $6.42>6.24$ |  |
| $71.17>71.71$ |  |
| $0.83<0.38$ |  |
| $0.41>0.14$ |  |
| $0.6<0.7$ |  |
| $0.554>0.545$ |  |

## Section D

| Statement | True or False |
| :---: | :---: |
| $0.5 \_0.6$ | True |
| $1.3 \_1.4$ | True |
| $2.11 \_2.09$ | True |
| $0.25 \_0.23$ | True |
| $0.46 \_0.47$ | True |
| $0.031 \_0.032$ | True |
| $0.776 \_0.775$ | True |


| Statement | True or False |
| :---: | :---: |
| $0.98-0.951$ | False |
| $2.222-2.002$ | True |
| $3.09-9.03$ | False |
|  | True |
|  | True |
|  | False |
|  | False |

## Problem solving!

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

Work out the value indicated by the arrow.



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## HOMEWORK 8: DIVIDING FRACTIONS RECALL

- Keep the first fraction the same.
- Change the division to a multiplication.
- Flip the second fraction. $\frac{4}{11} \div \frac{5}{9}=\frac{4}{11} \times \frac{9}{5}=\frac{36}{55}$

1) $\frac{1}{4} \div \frac{1}{3}$
2) $\frac{1}{7} \div \frac{1}{8}$
3) $\frac{2}{5} \div \frac{3}{4}$

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4) $\frac{9}{10} \div \frac{3}{8}$
5) $\frac{4}{5} \div \frac{3}{8} \div \frac{2}{9}$
6) $\frac{6}{11} \div 4$

7) $\frac{7}{10} \div 9$
8) $\frac{9}{12} \div 54$
9) $1 \frac{1}{10} \div \frac{2}{5}$


## Problem solving!

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


## Input $\rightarrow \times \frac{3}{4} \rightarrow$ Output

(a) Find the output, if the input is 2.
(b) Find the input, if the output is $\frac{1}{2}$

## HOMEWORK 9: MATHSWATCH



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## Additional working out space:



## HOMEWORK 10: RESEARCH TASK

## The Fibonacci sequence



This rectangle is made from six squares drawn on centimetre squared paper. Write down the length of one side in each of the squares.
Can you arrange the numbers to make a pattern?
What would be the next number in your pattern?
Write down a rule for your pattern.

Write down your answers for the questions above here:

Fibonacci was born in Pisa, Italy. He lived in the $13^{\text {dh }}$ century.
He worked on the pattern $1,1,2,3,5,8, \ldots$
Each number is found by adding the two terms immediately before it. The next number is 13 from $5+8$.
Fibonacci found that these numbers helped to explain things to do with spirals in flowers, shells, the breeding of rabbits, pine cones, the family tree of honeybees and many other cases.


## RESEARCH:

(a) Find out more about Fibonacci's life.
(b) List as many things as you can which are connected to Fibonacci numbers.

## Research task:

Present your findings for the research task in the box below.
$\square$

## HOMEWORK 11: PERCENTAGES 2

- Find the percentage of the amount
- To increase, add it on
- To decrease, take it off

| Increase the <br> following <br> amounts by... | $25 \%$ | $1 \%$ |
| :---: | :---: | :---: |
| $£ 20$ |  |  |
| $£ 16$ |  |  |
| $£ 32$ |  |  |
| $£ 60$ |  |  |
| $£ 400$ |  |  |
| $£ 2700$ |  |  |
| $£ 18 \prime 500$ |  |  |


| Decrease the <br> following <br> amounts | $20 \%$ | $2.5 \%$ |
| :---: | :---: | :---: |
| $£ 30$ |  |  |
| $£ 14$ |  |  |
| $£ 22$ |  |  |
| $£ 70$ |  |  |
| $£ 800$ |  |  |
| $£ 3400$ |  |  |
| $£ 26^{\prime} 200$ |  |  |

## Problem solving!

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

Oliver's salary is $£ 18,000$ and he is due to get an increase of $4 \%$.
How much will this increase be?

A new TV is priced at $£ 320$ In a sale it is reduced by $45 \%$

Calculate the sale price
$\qquad$

Joanne sees this special offer in a shop.

Joanne buys both items.
How much does she pay?
£. $\qquad$

## HOMEWORK 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.

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## Additional working out space:



## ANSWERS—WEEK 1




## ANSWERS—WEEK 2

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## ANSWERS—WEEK 5



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## ANSWERS—WEEK 7

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ANSWERS—WEEK 11

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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:

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


