Benjamin Britten Academy of Music and Mathematics

# **MATHEMATICS HOMEWORK BOOKLET**

# Year 7 Book A SUMMER



NAME:



## **How does it work?**

- One homework will be seta 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	CORE SKILLS
3	RESEARCH TASK
4	NEGATIVE NUMBERS
5	WRITING EXPRESSIONS
6	MATHSWATCH
7	DOUBLING
8	STATISTICAL DIAGRAMS
9	RESEARCH TASK
10	HALVING
11	PROBABILITY
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.

<u>Remember</u> - 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.





# **HOMEWORK 1: NUMERACY**

#### <u>example</u>

Given that 34 × 7 = 238, calculate 340 × 70 = 23,800

Each number became 10 times larger, so the answer became 100 times larger

#### 1. Calculate:

b)

2)	5 × 3 =
	50 × 3 =
	5 × 3000 =
	5000 × 3 =

#### 2. Calculate:

a) 
$$2 \times 60$$

i) 
$$800 \times 3$$

j) 
$$60 \times 4$$

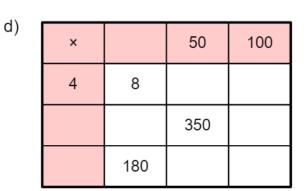
k) 
$$40 \times 7$$

d) 
$$90 \times 4$$

## 3. Complete these multiplication grids:

a)	×	6	8	10
	3			
	4			
	20			

×	3	20	
2			60
5			
40			



#### 4. Calculate:



a) 
$$20 \times 30$$

d) 
$$80 \times 30$$

e) 
$$90 \times 20$$

c) 
$$400 \times 20$$

#### 5. Work out the missing numbers:

#### 6. Given that $4 \times 3 = 12$ , work out:

a) 
$$40 \times 30$$

c) 
$$4 \times 3,000$$

e) 
$$40 \times 300$$

b) 
$$400 \times 3$$

d) 
$$400 \times 300$$

f) 
$$4 \times 3,000,000$$

## 7. Given that $19 \times 25 = 475$ , complete these related calculations:



# **HOMEWORK 2:** CORE SKILLS

Work out	Work out	Shade $\frac{3}{10}$ of the shape	Work out
102.2 + 20.99	60.2 - 18.19	10	135 × 5
Work out 570 ÷ 6	How much change would you get from £20 if you spent £3.78?	Write in words : 3054050	Mark angle ADC
Complete 320 cm = ? m	Round 3.25 correct to 1 decimal place	Work out £15.45 × 5 =	Round 0.542 correct to 1 significant figure
Work out £43.75 ÷ 7	Work out	Work out the size of the angle marked x	Work out





		A STATE OF THE STA
1) 25.6 +19.88 =	2) 142 - 128.5	3) $65 \times 1.7$
		', '
4) 60 : 150	F 2	() 7 , , 0 05
4) 60 ÷ 150	$5) \frac{5}{6} \times \frac{3}{10}$	6) 7 × 0.05
	6 10	

# Challenge!

Sum of the interior angles in a polygon:  $(n - 2) \times 180$  where n is the number of sides.

Regular: all sides equal and all angles equal.

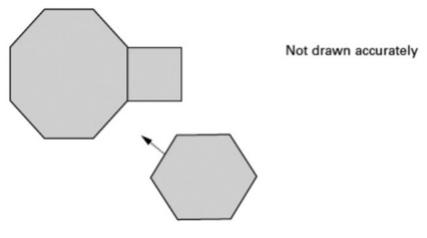
#### Tiles

A pupil has three tiles.

One is a regular octagon, one is a regular hexagon, and one is a square.

The side length of each tile is the same.

The pupil says the hexagon will fit exactly like this.



Show calculations to prove that the pupil is wrong.

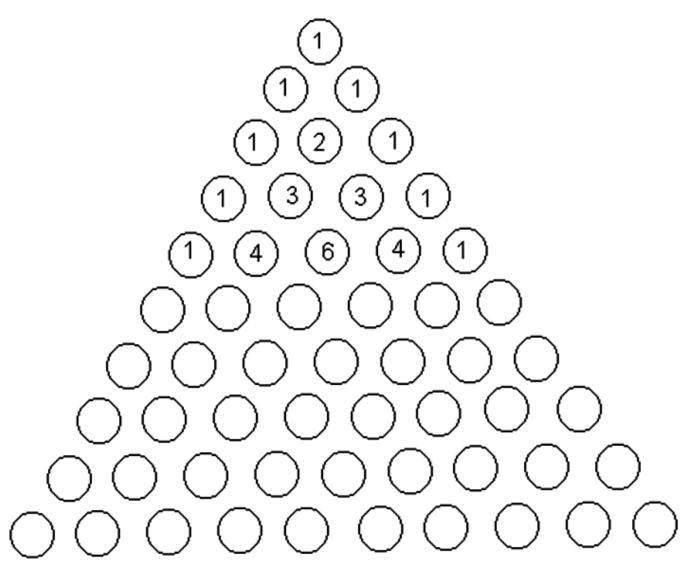


## **HOMEWORK 3:** RESEARCH TASK

To research Pascal's Triangle you can use the internet or a book to find the answers to the following questions.

Remember, if you need to, you can use the computers in the breakout area at school .

This picture shows the first five lines of Pascal's Triangle. Can you work out how it is made?



Each number is the total of the two numbers above it.

Use this fact to calculate the remaining 5 rows of Pascal's Triangle.

Can you see any patterns?
How are the odd numbers arranged in the triangle?
How are the even numbers arranged in the triangle?
What do you notice about the diagonals?
What type of numbers can you find in the 3 diagonal?
Who was Pascal and what can Pascal's Triangle be used for?

# **Challenge:**

Investigate the totals of the numbers in each horizontal row. Is there a pattern?

Can you predict the next total?



# **HOMEWORK 4:** NEGATIVE NUMBERS

#### Calculate: 1.

b) 
$$-4 + 8$$

e) 
$$12 \div -6$$

c) 
$$-4 \times 8$$

f) 
$$-12 \times -6$$

i) 
$$100 \times -72$$

#### 2. Fill in the blanks:

$$\frac{1}{2}a+b$$

$$a^2 - b$$

$$b - a$$

$$2a - 3b$$

$$a = -4$$

$$b = 3$$

$$b-3a^2$$

$$3(b + a)$$

$$\frac{a-b}{2}$$

 $3a^2$ 

# **Problem solving!**



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

Look at the calculations below and decide which section of

the grid they belong in. I	Write the letter of the calc	ulation in the correct place
	Answer is Negative	Answer is Positive
Answer is an Integer		
Answer has 1 decimal place		
Answer has 1 significant figure		
A -24 ÷ -10	- <u>250</u> -10	-26 × 0.5
f 12 - 24	$^{\text{G}}$ -2 × 0.6 $^{\text{H}}$ $\frac{0.15}{-3}$	
J -6 · 100	K 1 40	

$$\begin{bmatrix} -24 \div -10 \end{bmatrix} \begin{bmatrix} -250 \\ -10 \end{bmatrix} \begin{bmatrix} -3 + 14 \end{bmatrix} \begin{bmatrix} -26 \times 0.5 \end{bmatrix} \begin{bmatrix} \frac{24}{-2} \\ -2 \end{bmatrix} \begin{bmatrix} -2 \times 0.6 \end{bmatrix} \begin{bmatrix} -2 \times 0.6 \\ -3 \end{bmatrix} \begin{bmatrix} -5 \times 3 \end{bmatrix} \begin{bmatrix} -5 \times 3 \end{bmatrix}$$

$$\begin{bmatrix} -6 \div 100 \end{bmatrix} \begin{bmatrix} -3.5 + 4\frac{6}{10} \end{bmatrix} \begin{bmatrix} -2 \div -100 \end{bmatrix}$$

$$\begin{bmatrix} -3.5 + 4\frac{6}{10} \end{bmatrix} \begin{bmatrix} -2 \div -100 \end{bmatrix}$$

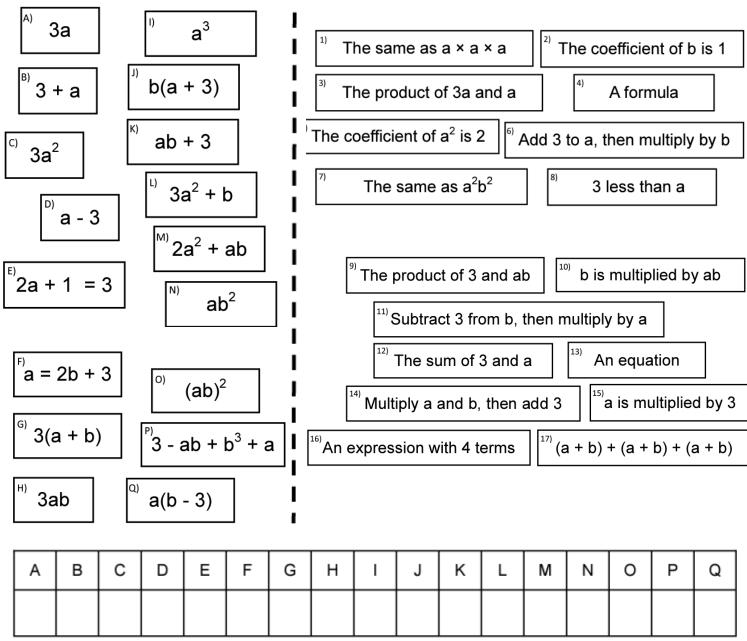
$$\begin{bmatrix} -3.5 + 4\frac{6}{10} \end{bmatrix} \begin{bmatrix} -2 \div -100 \end{bmatrix}$$

$\begin{bmatrix} 8 & -6 \\ -300 \end{bmatrix} \qquad \begin{bmatrix} 8 & -15 \\ -2 & \end{bmatrix}$	T 4.8 ÷ −4	0.4 × -0.2	$\begin{bmatrix} v & 17 \\ -0.5 & \end{bmatrix}$
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# **HOMEWORK 5:** ALGEBRAIC EXPRESSIONS

Match the algebraic notation on the left with its description on the right. Record your answers in the table.



## Substitution Mystery Grid





$$a = -5$$
  $b = -6$   $c = 8$   $d = 3$ 

The numbers in the bottom row add up to 10-b

The number below -3 is  $c^2 - b^2$ 

The number next to 5 is 4(c + b)

The numbers in the two diagonals have the same sum

The number above

4 is  $\frac{ab}{10}$  + 2

The number to the left of -3 is  $d^d$ 

The number in the bottom left corner is b - a

The number below 4 is (a + d)(b + c)

The number next to 0 is  $\frac{2c-a}{3}$ 

The numbers in the top row sum to 2 - ac

The number in the bottom right is the product of all the other numbers and 0

The number to the right of 2 is  $\sqrt{2c}$ 

The number to the left of 2 is  $\frac{b}{2}$ 

One of the numbers in the left column is 20 - d

The number above -3 is  $2d^2$ 

	2	



# **HOMEWORK 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.

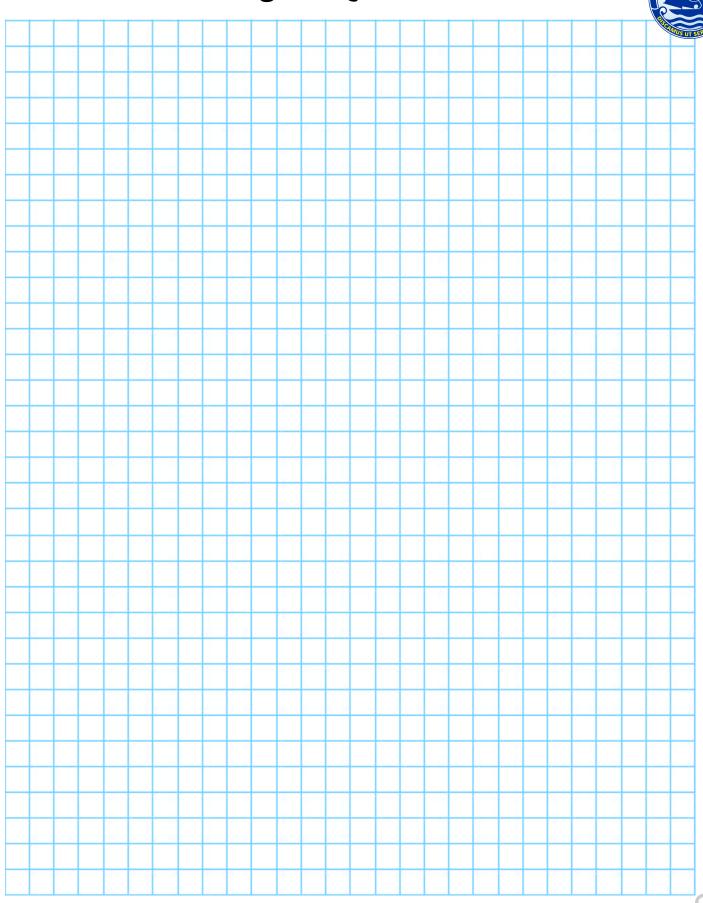
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If you have any issues logging in, you <u>must</u> speak to your class teacher as soon as possible.

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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 7: DOUBLING**

1	2	3	4	5	6	7	8	9	double
2	4	6	8	10	12	14	16	18	) double

#### Double 64

examples

 $=60 \times 2 + 4 \times 2$ =128

#### Double 87

 $= 80 \times 2 + 7 \times 2$ =160 + 14 = 174 mental maths: quick doubling

#### Work out:

- a)  $14 \times 2$
- b)  $28 \times 2$
- c)  $36 \times 2$
- d)  $48 \times 2$

- e)  $63 \times 2$
- f)  $29 \times 2$

- i)  $16 \times 2$
- $i) 39 \times 2$



## Try some larger numbers:

- a)  $134 \times 2$
- b)  $258 \times 2$

c)  $786 \times 2$ 

d)  $468 \times 2$ 

- e)  $613 \times 2$
- f)  $239 \times 2$
- g)  $888 \times 2$
- h)  $457 \times 2$

- i) 1062 × 2
- j)  $3412 \times 2$
- $k) 5668 \times 2$
- I)  $9098 \times 2$

## Think about doubles to work out these sums:

- a) 45 + 46
- b) 25 + 26c) 15 + 16
  - g) 39 + 40

e) 35 + 37

f) 30 + 31

- i) 49 + 50
- i) 25 + 27
- k) 40 + 41
- True or False: When you double a number, the answer is always even.

# **Problem solving!**

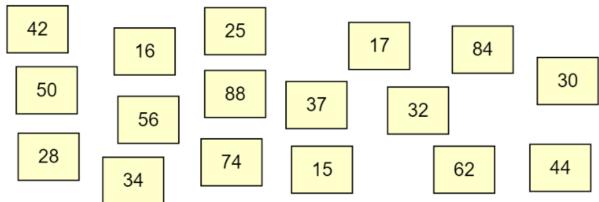


## Apply your core skills to the challenge questions below...

## what's left?

Match each number to its double. Which number is left on its own?





Complete these number sequences by doubling:

a) 8 16 4 b) 5 20 10 c) 6 12 24 d) 7 14 28 e) 8 16 32 f) 9 18 36 g) 10 20

24

12

h)



# **HOMEWORK 8:** STATISTICAL DIAGRAMS

Kyle collects some information about the number of people that live in each house on his street.

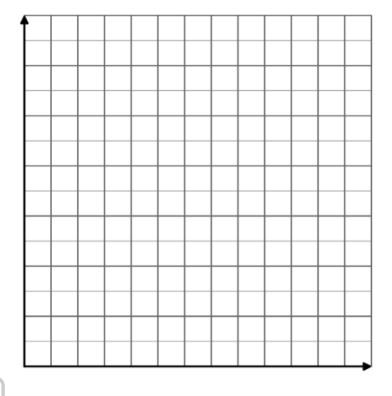
Record this raw data in the frequency table:

4	2	1	4	2
5	1	2	3	3
4	4	5	2	1

Number of people (x)	Frequency (f)

Jenny asked her classmates how many people lived in their household.

Draw a bar chart to show the results.



Number of People	Frequency	
1	0	
2	1	
3	9	
4	12	
5	3	
6+	3	



## True or False?



A group of people took part in a quiz. Table 1 shows the scores of everyone who played. From the statements below, shade FOUR that are DEFINITELY TRUE

Table 1

A Twelve people took
part in the quiz

- E The lowest score was 0
- **F** The quiz was out of 25
- **B** Nobody scored 23 marks

**G** At least one person scored more than 24 marks

more than 19 **D** Twenty four people

**C** Everybody scored

**H** The most common score was 24 points

Score	Frequency
20	3
21	0
22	1
23	2
24	5
25	1

Table 2

scored 5 marks

Age (x)	Frequency
15 ≤ <i>x</i> ≤ 18	4
18 < <i>x</i> ≤ 20	12
$20 < x \le 22$	15
22 < <i>x</i> ≤ 24	12
24 < <i>x</i> ≤ 26	0
26 < <i>x</i> ≤ 30	1

Table 2 shows the ages of a group of students. From the statements below, shade FOUR that are DEFINITELY TRUE

A Everyone who was surveyed was less than 30 years old

**B** The class widths are all equal

C 1 person was older than 26

**D** Nobody in the survey was 25 years old

**E** There were 16 students less than 21 years old

**G** 44 students were included in the survey

**F** One person in the survey was 29 years old



# **HOMEWORK 9: FAMOUS MATHEMATICIANS**

**Ada Lovelace** and **Katherine Johnson** made significant contributions to their fields. Their work has and will affect the lives of many for years to come. Using the internet or books to help you, answer the following questions. You may present your answers as full sentences, bullet points, or even as a storyboard or video. Be creative!

## **Ada Lovelace**

Answer here:

- 1. What year was she born?
- 2. Ava Lovelace never met her father, what was she famous for?
- 3. What is she regarded as being one of the first of?
- 4. In which film did a computer scientist communicate with her in the past?
- 5. When is Ava Lovelace Day celebrated?
- 6. Which famous author was she friends with?
- 7. Why was her work significant?
- 8. What would life be like without her contributions to maths?

Allswei fiele.	

## **Katherine Johnson**



- 1. What year was she born?
- 2. What was her full name?
- 3. How old was she when she graduated high school?
- 4. In 2015 Barack Obama awarded her which medal?
- 5. What did she calculate for NASA?
- 6. Which space missions was she involved in?
- 7. Why was her work significant?
- 8. What would life be like without her contributions to maths?

Answer here:	
	HIDDEN

Check out the Hidden Figures movie, a dramatized version of her experiences at NASA. IMDB rating 7.8/10, 93% Rotten Tomatoes.





# **HOMEWORK 10: HALVING**

mental maths: halving

You may want to use the bus stop method on this side:

## Calculate:

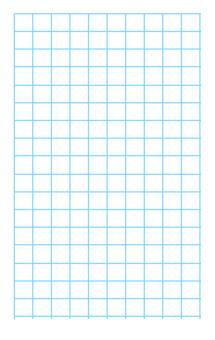
a) 
$$26 \div 2$$

c) 
$$60 \div 2$$

e) 
$$84 \div 2$$



$$i) 31 \div 2$$



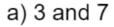
## <u>examples</u>

mental maths: half way between

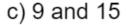
Find the number half way between 10 and 16

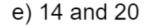
Find the number half way between 24 and 27

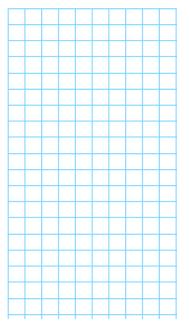
Find the number half way between:



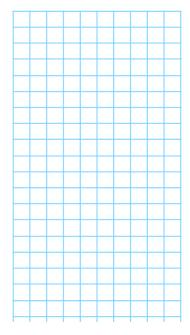








- f) 15 and 20
- g) 27 and 32
- h) 17 and 21
- i) 1 and 8
- j) 3 and 7



Example 1:

30 × 0.5

Half of 30 = 15

Example 2:

8 × 1.5

8 × 1 = 8 8 × 0.5 = 4 8 + 4 = 12

Example 3:

12 × 2.5

12 × 2 = 24

12 × 0.5 = 6

24 + 6 = 30

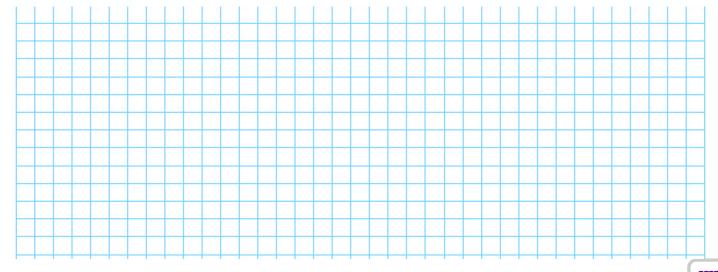


X	0.5	3.5	2.5	1.5
12				
6				
8				
3				

X	1.5	0.5	3.5	2.5
	9			
		4.5		
			24.5	
				75

Χ	2	7	16	40
1.5				
0.5				
3.5				
2.5				

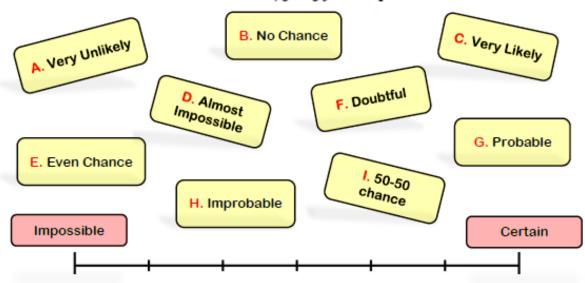
Χ				
10				105
18			27	
4		10		
11	5.5			





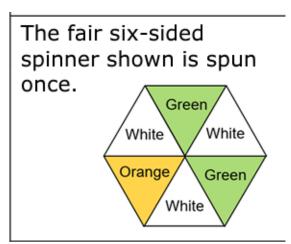
# **HOMEWORK 11: PROBABILITY**

Place the words somewhere on the scale, going from impossible to certain.



(a)	(b)
A fair, six-sided dice numbered 1 to 6 is rolled once. What is the probability of the dice landing on a 5?	A fair four-sided dice numbered 1 to 4 is rolled once. What is the probability of the dice landing on a 3?
(c)	(d)
A fair ten-sided dice numbered 1 to 10 is rolled once. What is the probability of the dice landing on a 7?	A fair ten-sided dice numbered 1 to 10 is rolled once. What is the probability of the dice landing on a 5 or 6?
LOOK	

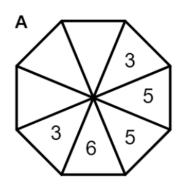
P<sub>1</sub>, P<sub>2</sub>



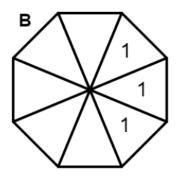
(e)		(f)	AND IT STUMBER	
What is the probability of the spinner landing on white?	•	What is the probability that the spinner does not land on orange?		
(g)	(ŀ	1)		
Which is more likely – the spinner landing on white or the spinner landing on green?	ı	Lola spins the spi mes. How many t she expect it to white?	imes would	

## Design a Spinner!

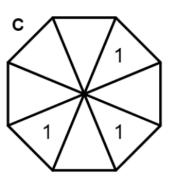
**Using only the numbers 1-6**, complete these spinners so they match the probability statements that describe them.



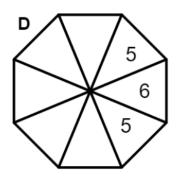
The chance of getting a 1 is zero.
You are more likely to get a 2 than a 3
You have no chance of getting a 4.



It is impossible to land on an even number. You are most likely to get a 3. You are certain to get a number less than 4.



You are twice as likely to land on a 4 than a 3. You are certain to get a number less than 5. It is impossible to land on a 2.



You are unlikely to land on a 3 or 4. You are most likely to land on a 2. You are certain to land on a number more than 1.



## **HOMEWORK 12: MATHSWATCH**



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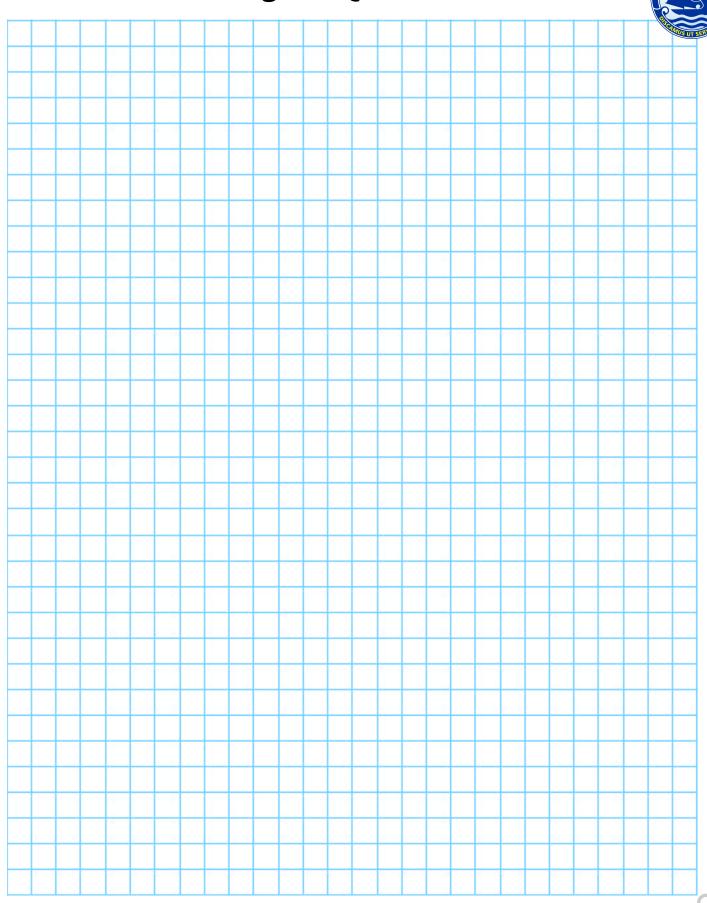
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# Additional working out space:



0006	4200	180	06
002	320	ÞΙ	۷
400	200	8	7
100	09	2	×

5200	3000	009	100	
200	100   000   200			
09	09	01	2	
52	30	G	×	

(p

(q

2700

150

210

1200	008	120	04
120	100	٩l	G
09	07	9	2
US	07	c	×

500	160	120	20
01⁄2	32	24	7
30	24	81	3
01	8	9	×

Complete these multiplication grids: .ε

360

 $e) 7 \times 30$ 

t × 06 (p

K)  $d0 \times 1$ 

b) 
$$3 \times 400$$
 1200 f)  $20 \times 6$ 

Calculate: 2.

(D

(೪

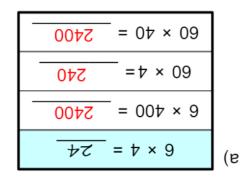
$$2 \times 3000 = 12,000$$

$$2 \times 3 = 12,000$$

$$2 \times 3 = 120$$

$$2 \times 3 = 12$$

280



#### Calculate:

Work out the missing numbers:

Given that  $4 \times 3 = 12$ , work out:

Calculate: ٦.

 $9) 20 \times 30$ 

.6

 $6) 80 \times 20$  $p) \ 50 \times 80$ 1600 1800

0008 240,000  $4000 \times 000$ c)  $400 \times 50$ 

 $06 \times 08$  (b

2400

= 2800 × 04 (b a) 2 × 04 = 550110

1200 x G (d - 210 × 6 (ə 300 30

x 21 (1 98 = c) 3 x 30 - 210 04

× 03 (i

× 009 (4

4 200 × 300 (4

a) 800 × 20

00t

 $!) 8000 \times 300 \ 2,700,000$ 

× 7 (g

= 5200

0081 =

= 5800

150,000

000,81

1) 4 × 3,000,000 12,000,000  $p) + 000 \times 3$ 1,200 e) 40 × 300 12,000 c)  $4 \times 3,000 12,000$ a) 40 × 30 1,200

d)  $400 \times 300$  120,000

Given that  $19 \times 25 = 475$ , complete these related calculations:

 $\times$  5200 = 475,000 a) 19 × 2500 = (1 009'47 190

× 52 = 4750  $|190 \times 2500 = |475,000|$ (6) 190

1,900 × 2,500 = × 61 (၁ 0947 = 4,750,000 250

000'094'\$ = × 006, f (i  $= 092 \times 0001$  (p 475,000

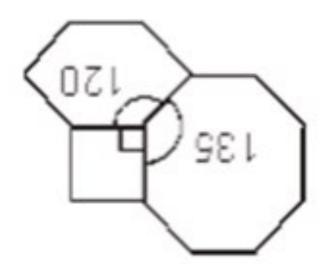
003,74 = | 002,2 | × ef ([ 1900  $\times 52 = 41200$ 

009

848	.65 °x 65°	2090	£6.25
1205 – 657 1205 – 657	Work out the size of the angle marked x	Work out 1245 + 845	Work out £43.75 ÷ 7
2.0	52.77 <u>3</u>	3.3	2.8
Round 0.542 correct to 1 significant figure	Work out = 2 × 34.213	Sound 3.25 correct to 1 decimal place	320 cm = 3 m

Q A	Three million, fifty four thousand and fifty	£3.78?	<b>S</b> 6
Mark angle ADC	Write in words : 3054050	How much change would you get from £20 if you spent	₩ork out 570 ÷ 6
SZ9		42.01	123.19
132 × 5 Work out	Shade $\frac{3}{10}$ of the shape	Work out 60.2 – 18.19	Work out 102.2 + 20.99

20.0×7 (ð	$\frac{\frac{1}{7}}{1}$ $\frac{1}{2} \times \frac{3}{2}$	051 ÷ 09 (4 ↑.0
7.1 × 59 (5	2,821-241 (2 <b>3,5</b>	= 88.91+ 6.25 (f



3.5	•	-3	<b>9</b> 7-		
	$\frac{7}{q-p}$	(p+q)§	<sub>z</sub> vg – q		
84		£ = d	<b>۷</b> ۱-		
	302	<b>ի</b> - = թ	qε – v7		
7		13	L		
	v-q	$q - {}_{Z}p$	$q + v \frac{Z}{I}$		

$$0! - = \frac{0}{9} - 1 - (b)$$

$$0! - = \frac{0}{9} - 1 - (b)$$
  $9! = \frac{1}{100} \times 1 - (d)$ 

$$= \frac{12}{12} \div 21 - (9)$$

c) 
$$\frac{0}{1}$$
 - 12 = -12

2. Fill in the blanks:

1. Calculate:

R' M' ס' צ' ח	Ч ,L ,H	Answer has 1 sigure
S ,A	G, L, O, T	Answer has 1 decimal place
В' С' И	D' E' I' \	Answer is an Integer
si newanA evitiso9	si newenA Negative	

II	16	L	10	G	2	٦١	9	7	6	<u>ال</u>	7	13	8	ω	12	91
Ø	Ъ	0	N	M	Г	К	ر	_	Η	۵	П	Ш	а	0	B	A

0	L	٥١	<b>L-</b>
₽-	56	28	۲۱
Þ	2	£-	72
G	8	81	II.

## False eg. 1.5

True or False: When you double a number, the answer is always even.

c) 
$$12 + 16$$
 31 6)  $30 + 40$  46 47 87

$$5)$$
  $55 + 26$   $61$   $1)$   $50 + 31$   $61$   $1)$   $52 + 57$   $62$ 

Think about doubles to work out these sums:

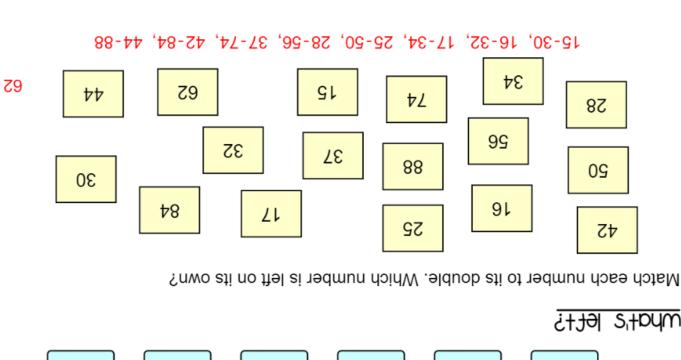
c) 
$$180 \times 2$$
 1215 a)  $888 \times 2$  11,336

$$5.58 \times 2 \times 176$$
 (i  $874 \times 2 \times 952$  (f  $816 \times 2 \times 852$  (d

Try some larger numbers:

$$2 \times 86 = 2 \times 10^{-2}$$
  $2 \times 10^{-2}$   $2 \times 10^{-2}$   $2 \times 10^{-2}$   $2 \times 10^{-2}$ 

c) 
$$39 \times 5$$
 15 a)  $89 \times 5$  116 k)  $29 \times 5$  119





Complete these number sequences by doubling:

l	7	G	7	7
3	3	2	l	G
2	7	l	2	7

Record this raw data in the frequency table:

Kyle collects some information about the number of people that live in each house on his street.

7	9
<b>7</b>	7
2	3
7	2
3	l
Frequency (f)	Number of people (x)

Mumber of People in Household											
+9		g		abla		3		7	l		
Н	H						_				2
											Þ
											9
											8
											01
											12
	Number of People in a						,				

3	+9
3	S
12	7
6	3
l	2
0	l
Frequency	Number of People

Jenny asked her classmates how many people lived in their household.

Draw a bar chart to show the results.

# True or False?

A group of people took part in a quiz. Table I shows the scores of everyone who played. From the statements below, shade FOUR that are DEFINITELY TRUE

l	52		
9	24		
2	23		
l	22		
0	12		
3	20		
Frequency	Score		
∫ əldsT			

7 The quiz was out of 25
E The lowest score was 0

B Nopody scored 23 marks

part in the quiz

A Twelve people took

**G** At least one person scored more than 24 marks

■ Twenty four people scored 5 marks

more than 19

C Everybody scored

Table 2

H The most common score was 24 points

Table 2 shows the ages of a group of students. From the statements below, shade  $\mathsf{FOUR}$  that are

DEFINITELY TRUE

A Everyone who was surveyed was less than 30 years old

C 1 person was older than 26

] | G|

 $21 \qquad 42 \ge x > 22$   $0 \qquad 62 \ge x > 42$ 

 $05 \ge x > 32$ 

50 < x < 55

 $0.2 \ge x > 81$ 

 $81 \ge x \ge 61$ 

 $\forall x$ )  $\forall x$ 

D Nobody in the survey was 25 years old

are all equal

B The class widths

**G** 44 students were included in the survey

E There were 16 students less than 21 years old

F One person in the survey was 29 years old

L

15

ħ

Frequency

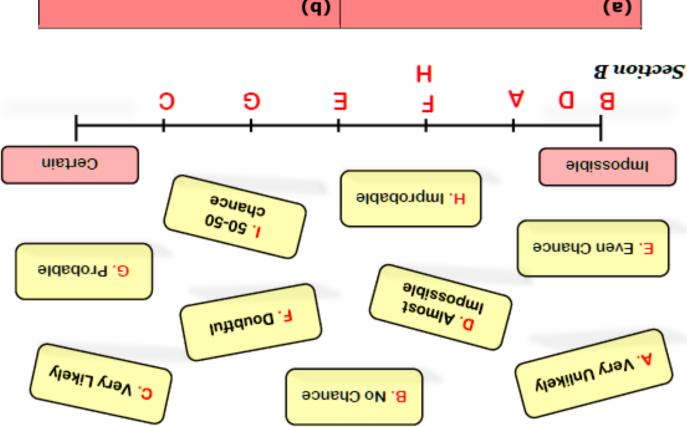
42	S ÷ 48 (9	3.31	S ÷ 1ε (į
34	S ÷ 88 (b	3.41	2 ÷ 62 (i
30	c) 60 ÷ 2	12.5	h) 25 ÷ 2
24	S ÷ 84 (d	3.01	2 ÷ 12(8
13	2 ÷ 92 (s	<b>G.8</b>	2 ÷ 71 (1
	:ejelnoleO		
9	7 bns & (į	۷١	e) 14 and 20
6.4	8 bns 1 (i	01	21 bns 8 (b
6١	12 bns 71 (d	12	c) 9 and 15
29.62	28 bns 72 (g	<b>t</b>	9 bns S (d
۵.۲۱	15 and 20	g	7 bns & (s

100	07	<b>3.71</b>	G	2.5
140	99	24.5	L	3.5
50	8	3.5	l	g <sup>.</sup> 0
09	24	3.01	ε	۵.٢
07	9۱	L	2	Χ

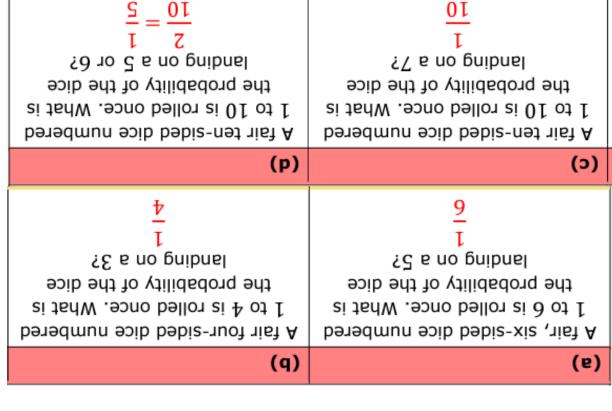
<b>6.</b> 4	Z.T	3.01	<b>3.</b> ↑	3
15	50	28	<b>ヤ</b>	8
6	91	21	3	9
81	30	45	9	71
۵.۱	2.5	3.5	ō.0	X

3.311	3.91	2.72	<b>G</b> . <b>G</b>	l l
45	9	01	7	Þ
681	72	97	6	81
901	91	52	G	٥١
3.01	g. r	2.5	<b>G.0</b>	X

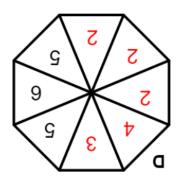
97	901	٩l	97	30
9.۲۱	24.5	3.5	3.01	L
22.5	31.5	<b>6.</b> 4	13.5	6
٩l	12	3	6	9
2.5	3.5	<b>6.0</b>	۵.۱	X



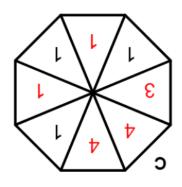
Place the words somewhere on the scale, going from impossible to certain.



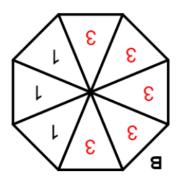
You are unlikely to land on a 3 or 4.
You are most likely to land on a 2.
You are certain to land on a number



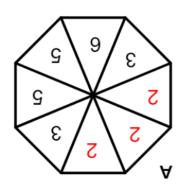
You are twice as likely to land on a 4 than a 3. You are certain to get a number less than 5. It is impossible to land on a 2.



It is impossible to land on an even number. You are most likely to get a 3. You are certain to get a number less get a number less



The chance of getting a 1 is zero. You are more likely to get a 2 than a 3 You have no chance of getting a 4.



Lola spins the spinner 120 times. How many times would she expect it to land on white?	the spinner landing on white or the spinner landing on green?  Landing on white	that the spinner does not land on orange?  5  7  7  7	of the spinner landing of the spinner landing $\frac{3}{6} = \frac{1}{2}$
Lola spins the spinner 120	Which is more likely –	What is the probability	What is the probability
(4)	(6)	(1)	(ə)

## **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

