

Benjamin Britten Academy of Music and Mathematics

MATHEMATICS HOMEWORK BOOKLET

Year 7 Book B 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 <u>speak to your teacher</u> <u>before the due date</u>

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| 7 | Numeracy |
| | |
| 7 | Numeracy |
| 7 8 | Numeracy Sequences |
| 7 8 9 | Numeracy Sequences Real life maths |

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.

<u>Mathswatch</u>

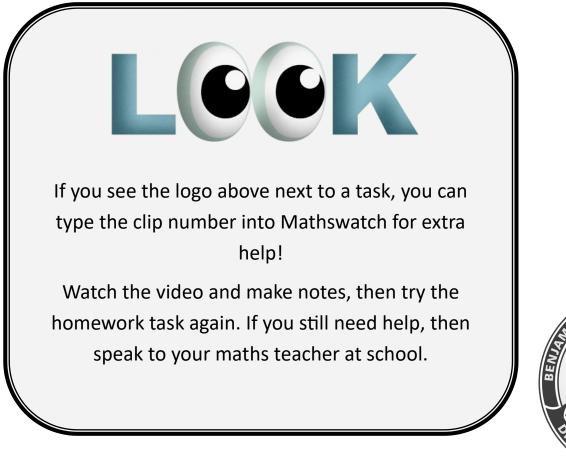
Username—firstnamelastname@benjamin Password—your DOB (format: monthDYYYY)

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

Literacy challenge -**Missing vowels!**

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

BR CK TS

PR_D_CT

 $C _ RD _ N _ T _ S$

Recall and Recap

MENTAL STRATEGIES do these in your head

TIMESTABLES do these in your head

Question

Answer

Q

1

Quick maths!

| Q | Question | Answer |
|----|--|--------|
| 1 | 3 + 17 | |
| 2 | What is double 55? | |
| 3 | 112 + <mark>1</mark> 0 | |
| 4 | 29 – 10 | |
| 5 | 6 = 1 + 🗆 | |
| 6 | 58 – 11 = 58 – 8 – □ | |
| 7 | 73 + 73 = □ × 73 | |
| 8 | Draw hands on the clock face showing 10:10 am | |
| 9 | 7 + 3 | |
| 10 | □ + 46 = 100 | |
| - | Total out of 10 | |

OCK

N7b, N20, N19, **A1**

6 × 7 = □ 2 24 ÷ 4 = □ 3 4 × □ = 28 24 ÷ □ = 4 4 5 7 × 6 = □ 6 18 ÷ 6 = □ 7 $\square \times 4 = 4$ 8 $\Box \div 2 = 3$ 9 5 × 7 = 🗆

54 ÷ 6 = □ 10 Total out of 10 12 11 10



| | ** | *** |
|-----|-------------|-------------------------------|
| B1 | 8231 + 8329 | ^{c1} 515.3 - 1.654 |
| B2 | 1216 ÷ 16 | c2 1.615 ÷ 0.17 |
| B3 | 3682 + 1346 | ^{c3} 760.3 - 0.534 |
| B4 | 2702 + 4229 | ^{C4} 392.7 + 0.3672 |
| B5 | 6074 + 7459 | c₅ 892.9 + 5.414 |
| B6 | 1155 ÷ 15 | 9.18 ÷ 1.7 |
| B7 | 7501 - 7083 | c7 0.91 ÷ 1.3 |
| B8 | 87 × 863 | ^{C8} 78.03 - 4.592 |
| B9 | 2779 + 9245 | ^{C9} 0.5368 + 0.7958 |
| B10 | 75 × 467 | ^{C10} 377.4 + 179.5 |



| Q | Question | Answer |
|----|---|--------|
| 1 | 481 + 1429 | Answer |
| 2 | $(9-5)^2 + 3 \times 4$ | |
| 3 | Write One Thousand and Thirty Two in digits | |
| 4 | 0.35 ÷ 100 | |
| 5 | (-6) × (-10) | |
| 6 | Round 81.4358 to 2 d.p. | |
| 7 | (-5) + (-5) | |
| 8 | Round 21 to 2 s.f. | |
| 9 | Letter at $(0, -1)$ y A B C D E F G H J K L M N P x Q R S T U V W X Y Z | |
| 10 | 1/4 = 3/□ | |
| | Total out of 10 | |

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HW 1

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

Runners

Lily finished 2nd out of 8 runners in a race.

How many runners finished the race after Lily?

Max was in a different race.

7 runners finished the race before Max.

3 runners finished the race after Max.

Altogether, how many runners finished the race?

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it 1 mark



HOMEWORK 2: PLACE VALUE

Let's start with the basics...

Write down these numbers in standard form.

| Example | 7 ten thousands + 3 thousands + 8 tens + 4 ones = | 73,084 |
|---------|---|--------|
| 1) | 8 thousands + 7 hundreds + 4 tens + 5 ones = | |
| 2) | 5 thousands + 2 hundreds + 9 tens + 3 ones = | |
| 3) | 4 ten thousands + 7 thousands + 3 hundreds = | |
| 4) | 2 ten thousands + 8 hundreds + 5 tens + 9 ones = | |
| 5) | 7 ten thousands + 2 thousands + 8 tens + 2 ones = | |
| | | LOCK |



| | Bronze | Silver | Gold |
|--------------|---|--|---|
| <u>cills</u> | Q1) What is the tens digit of $467?$ | Q1) What is the hundreds digit of $5417?$ | Q1) What is the tens digit of $2500-1650?$ |
| ur sl | Q2) What is the hundreds digit of $917?$ | Q2) What is the thousands digit of $4652?$ | Q2) What is the hundreds digit of $437-111?$ |
| <u>1g yo</u> | Q3) What is the hundreds digit of $328?$ | Q3) What is the hundreds digit of 6875? | Q3) What is the thousands digit of $2381-1111?$ |
| plyII | Q4) What does the 6 digit in 613 represent? | Q4) What does the 9 digit in 9214 represent? | Q4) What is the thousands digit of $3457+3108?$ |
| Ap | Q5) What does the 3 digit in 432 represent? | Q5) What is the tens digit of 4856? | Q5) What is the tens digit of $1786 + 1568?$ |
| | Q6) What is the tens digit of 481? | Q6) What does the 7 digit in 8725 represent? | Q6) What is the tens digit of $4446-3978?$ |

Apply your core skills to the challenge questions be-10w...

As we move a place to the left on the place value chart, the value gets ten times bigger.

3 tens = 3 ones x 10 = 30 ones.

3 hundreds = 3 tens x 10 = 30 tens (or 300 ones)

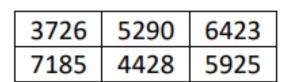
3 thousands = 3 hundreds x 10 = 30 hundreds (or 300 tens)

| 1) | 5 hundreds = ones | 2) | 60 ones = tens |
|-----|-------------------------|-----|-------------------------|
| 3) | 7 thousands = hundreds | 4) | 30 tens = hundreds |
| 5) | 60 ones = tens | 6) | 3 thousands = hundreds |
| 7) | 50 hundreds = thousands | 8) | 1 thousand = ones |
| 9) | 8 hundreds = ones | 10) | 40 ones = tens |
| 11) | 4 thousands = tens | 12) | 80 hundreds = thousands |
| 13) | 30 tens = ones | 14) | hundreds = 400 ones |
| 15) | 70 tens = hundreds | 16) | 5 hundreds =tens |
| 17) | 60 tens = hundreds | 18) | 4000 ones = thousands |
| 19) | 50 tens = ones | 20) | 4000 ones = hundreds |
| 21) | thousands = 200 tens | 22) | hundreds = 9 thousands |

Work out these missing conversion facts

PUZZLE TIME – find the answer to the riddle below in the table!

- I am worth more than 30 hundreds.
- I am less than 7000 ones.
- My tens digit is greater than my ones.
- I am a multiple of 5.
- Who am I?





A7a

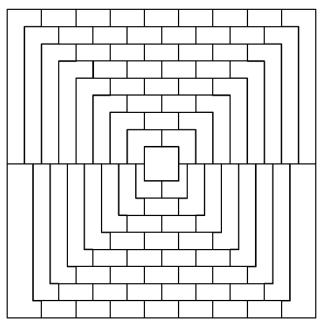




HOMEWORK 3: FOUR COLOUR THEOREM

<u>Part A</u>

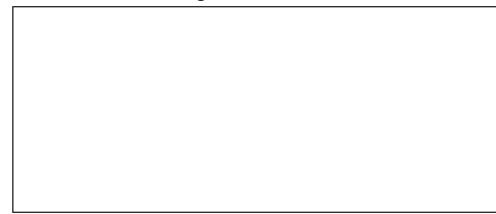
Colour in the pattern so that no areas which touch have the same colour. Try to use the least number of different colours possible.



What is the least number of different colours that are needed?

<u>Part B</u>

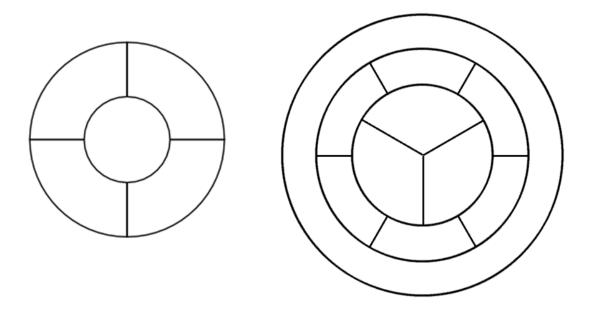
Now make your own pattern using the same rule (you can't have the same colours next to each other). Try to make a pattern which needs the greatest number of different colours.



What is the greatest number of different colours that are needed?

How many colours do you need to colour the two pictures below so that no two touching parts are the same colour? Use your own colours to test it out. Try to use the minimum number of colours possible.





Thanks to the Four Colour Theorem, we know that any picture of this kind only requires four different colours (to have no touching parts be the same colour).

RESEARCH: Use the internet or books to answer the following questions.

- Q1 a) What is cartography?
 - b) How does the Four Colour Theorem link to cartography?

Q2 Why do some people believe that the Four Colour Theorem has not been proven properly?

Q3 Who famously thought he had proved the Four Colour Theorem but found out ten years later that he had made a mistake?

HOMEWORK 4: NUMERACY

Literacy challenge — Missing vowels! Below are 3 keywords in maths, but the vowels are missing. Can you fill the blanks? _Q__LS

TR __ NGL _

_Q__V_L_NT

| | ** | ★★★ |
|-----|-------------|---------------------------------|
| B1 | 3480 - 1864 | ^{c1} 63.03 - 0.9789 |
| B2 | 5105 - 1990 | 4.31 × 1.2 |
| B3 | 960 ÷ 15 | ^{c3} 0.6148 + 972.2 |
| B4 | 1050 + 3770 | ^{c4} 84.04 - 0.5953 |
| B5 | 8731 - 7375 | ^{c₅} 0.3936 − 0.1699 |
| B6 | 1106 ÷ 14 | ^{C6} 577.2 + 0.7505 |
| B7 | 347 × 25 | 156.2 + 77.7 |
| B8 | 3133 + 5739 | св 0.0876 ÷ 0.12 |
| B9 | 8574 - 4025 | ^{C9} 17.1 × 2.86 |
| B10 | 5282 - 3863 | c10 30 × 368 |
| | | |

MENTAL STRATEGIES - do these in your head

Recall and Recap

TIMESTABLES – do these in your head

Q Question

Quick maths!

Answer

| Q | Question | Answer |
|----|--|--------|
| 1 | □ + 3 = 5 | |
| 2 | 68 + 🗆 = 100 | |
| 3 | What is half of 4? | |
| 4 | 189 – 10 | |
| 5 | 161 + 🗆 = 240 | |
| 6 | 74 = 24 + □ | |
| 7 | 629 – 627 | |
| 8 | 9 × 5 = 45, so 45 ÷ 9 = □ | |
| 9 | Write 8:23 am in 24 hour clock format | |
| 10 | 2:15 pm is how many minutes after 2:05 pm? | |
| - | Total out of 10 | |

| | Leel | |
|-----|--------------|---|
| Tot | al out of 10 | |
| 10 | 2 ÷ 2 = □ | |
| 9 | 6 × 4 = □ | |
| 8 | □ ÷ 3 = 9 | |
| 7 | □ × 1 = 10 | |
| 6 | 40 ÷ 4 = □ | |
| 5 | 6 × 1 = □ | |
| 4 | 45 ÷ □ = 9 | |
| 3 | 5 × □ = 30 | |
| 2 | 24 ÷ 8 = □ | |
| 1 | 5 × 1 = □ | |
| _ | 240001011 | / |

N15, N16, A10,

KEY SKILLS – you may use written calculations for these questions

| Q | Question | Answer |
|----|--|--------|
| 1 | What is 4/6 of 30? | |
| 2 | 3 × 911 | |
| 3 | 16071 – 8966 | |
| 4 | 6.9 × 5.85 | |
| 5 | 8/10 as a decimal number | |
| 6 | 23.8 + 0.55 | |
| 7 | (-18) ÷ 9 | |
| 8 | If $a = 6 b = 8$ and $c = 4$, what is the value of $(2b/c)^2$ | |
| 9 | (-1) – (-3) | |
| 10 | Is 1 a factor of 3? | |
| | Total out of 10 | |

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



Multiplication grids

Write the missing numbers in these multiplication grids.

| (4. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. | × | 8 | |
|--|--------|-----|-----|
| | 9 | 72 | |
| | -6 | | 30 |
| | | | |
| 4 | ſ | | |
| 44. (h) | × | 0.2 | |
| | × 3 | 0.2 | 1.2 |



HOMEWORK 5: AVERAGES

| | ecal | <u>l an</u> | d R | lecap: | Frequ | le | ncy | dia | lgra | <u>ms</u> | | | |
|--|------------------------------------|-------------------------------------|--------------------------|-----------------------|----------------------------|--------------------|---|--|-------------------------------------|----------------------|------|-------------|------------|
| | | | | = 1 item = 5 items | ı ıPict | to | gra | ms | Remem | ber a K | Key! | | |
| Red | Blue | Red | Green | Blue | Ι, | Kev | 2 | | = 1 perso | 'n | | | |
| Blue | Red | Blue | Red | Yellow | I B | Blue | Ş | - opic | | | | | |
| Red Green | Red Blue | Yellow Green | Green | Red Red | 1 | irey | | 8 88 | | | | | |
| | | you tally t | | you don't lose | | | | | | | | | |
| Complete the | e table fr | track om the d | ata abo | ive. | Bro | wn | *** | X7 | | | | | |
| Colour | | Tally | | Frequency | | een | ? | | | | | | |
| Red | | | | , | - 0 | ther | XX | | | | | | |
| Blue | | | | | How man | ny pe | ople have | e grey e | yes? | | | | |
| Green | | | | | How man | y peo | ople have | brown | eyes? | | | | |
| Yellow | | | | | | | | | | | | | |
| Which fru | it is the | mode? | | | 5 people | have | green ey | es, ma | k this on | the diag | ram. | | |
| | | | | | | | | | | | | 00 | |
| | В | ronze | • | | | | | Silv | /er | (| | S 1, | S 6 |
| Find the | | | | nedian | Fin | ıd tl | he me | | ver mode | , mec | dian | S 1, | Se |
| and rang | mea ge: | n, mo | de, r | median | and | d ra | ange (| ean, (rour | mode Id to 1 | dp): | dian | S 1, | Se |
| and rang | mea ge: | n, mo | de, r | median | and | d ra | ange (| ean, (rour | mode | dp): | dian | S 1, | Se |
| and rang Q1) 15, | mea ge: 7,15 | n, mo 5, 10, | de, r 3 | nedian | and Q1 | d ra) 9 | ange ($,3,20$ | ean, (rour 0, 14 | mode Id to 1 | dp): 10 | dian | S 1, | Se |
| and rang Q1) 15, Q2) 18, | mea ge: 7,15 4,11 | n, mo 5, 10, ., 18, | de, r 3 14 | median | 21 Q1 Q2 | d ra) 9 | ange (, 3, 20 , 7, 19 | ean, (rour 0, 14 9, 15 | mode id to 1 I, 14, | dp): 10 7 | dian | S 1, | Se |
| Find the and rang Q1) 15, Q2) 18, Q3) 15, Q4) 20, | mea ge: 7,15 4,11 21,1 | n, mo 5, 10, ., 18, .1, 15 | de, r 3 14 5, 5 | nedian | 21 Q1 Q2 Q2 Q3 | d ra) 9) 6 | ange (, 3, 20 , 7, 19 , 8, 19 | ean, (rour 0, 14 9, 13 5, 6, | mode id to 1 I, 14, 3, 20, | dp): 10 7 2 | dian | S 1, | Se |

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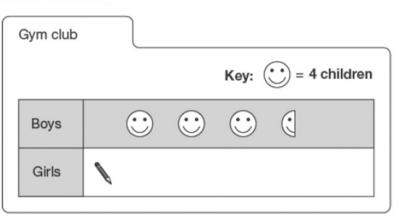
Apply your core skills to the challenge questions below...

Clubs

A sports centre has two different clubs.

(a) 22 children go to the gym club.

Complete the pictogram.



1 mark

(b) 10 more girls than boys go to the swimming club.

Complete the key.

| Swimming | club | Nк | ey: 💽 | | children |
|----------|----------|----------|----------|----------|----------|
| Boys | \vdots | | | | |
| Girls | \vdots | \vdots | \vdots | \vdots | \vdots |

1 mark

Mean

The mean of five numbers is 10

I add one more number and the mean is now 11

What number did I add?

2 marks







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.

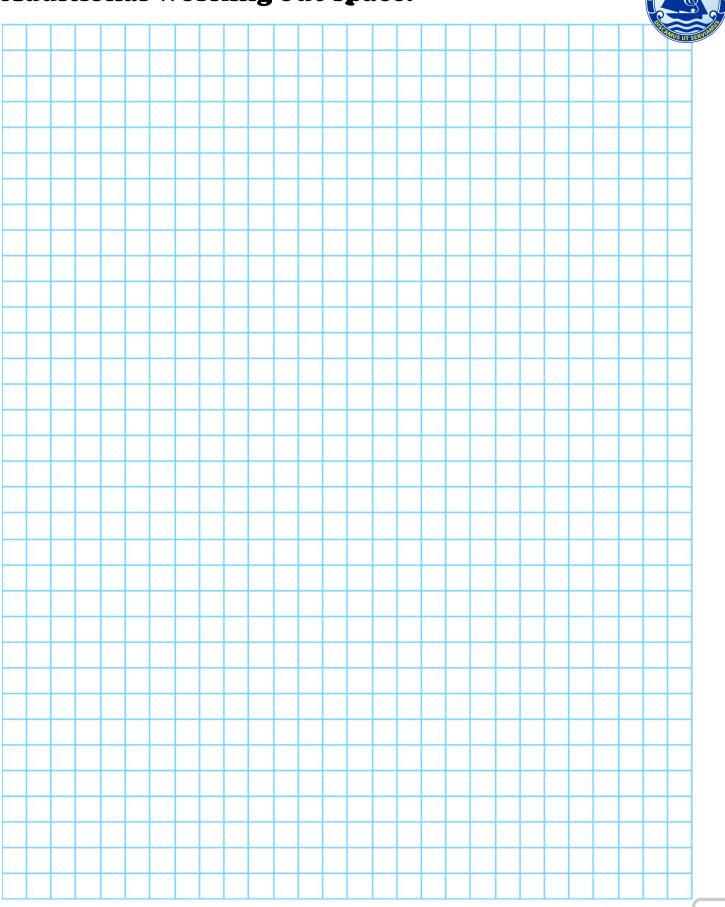
Below are the log in instructions you will need in order to access and complete this homework task.

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

Username – firstnamelastname@benjamin

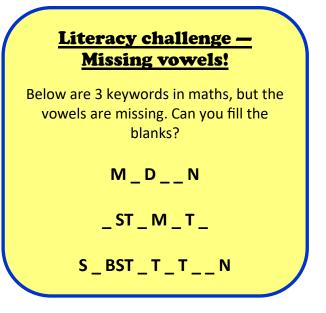
Password— your DOB (format: monthDYYYY)

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



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HOMEWORK 7: NUMERACY



Recall and Recap

MENTAL STRATEGIES - do these in your head

TIMESTABLES – do these in your head

| Q | Question | Answer |
|----|--------------------------|--------|
| 1 | □ + 7 = 10 | |
| 2 | What is double 9? | |
| 3 | Halve 40 | |
| 4 | 111 + 30 | |
| 5 | 66 + 63 | |
| 6 | 17 + 9 = 17 + 3 + □ | |
| 7 | 3 + 468 | |
| 8 | 33 + 70 = 30 + 70 + □ | |
| 9 | Double 58 | |
| 10 | What is half of 7? | |
| - | Total out of 10 | |

| Q | Question | Answer |
|-----|---------------|--------|
| 1 | 6 × 2 = □ | |
| 2 | 36 ÷ 6 = □ | |
| 3 | 5 × □ = 15 | |
| 4 | 56 ÷ □ = 7 | |
| 5 | 3 × 9 = □ | |
| 6 | 5 ÷ 5 = □ | |
| 7 | □ × 9 = 9 | |
| 8 | □ ÷ 6 = 3 | |
| 9 | 8 × 3 = □ | |
| 10 | 18 ÷ 3 = □ | |
| Tot | tal out of 10 | |
| | | |

OOK

N24, N16, N17, N11

| | ** | ★★★ |
|-----|-------------|------------------------------|
| B1 | 4232 - 1265 | c1 1.862 ÷ 0.19 |
| B2 | 5416 - 4292 | c2 18.93 - 0.2231 |
| B3 | 272 ÷ 16 | c3 12.16 ÷ 1.6 |
| B4 | 645 × 64 | c4 9.38 × 73.4 |
| B5 | 55 × 182 | c₅ 20.6 × 7.15 |
| B6 | 1218 ÷ 14 | c6 0.12 ÷ 0.15 |
| B7 | 7229 + 4496 | c7 74 × 70.1 |
| B8 | 8454 - 4569 | ^{c8} 409.4 - 24.52 |
| B9 | 1088 ÷ 17 | ^{сэ} 0.812 - 0.1137 |
| B10 | 608 ÷ 16 | c10 328.5 - 265.1 |

KEY SKILLS – you may use written calculations for these questions

| Q | Question | Answer |
|----|--|--------|
| 1 | What is 125% of £150? | |
| 2 | 1710 ÷ 5 | |
| 3 | 85 – 15 ÷ 5 | |
| 4 | 28.82 ÷ 0.5 | |
| 5 | 71.204 × 100 | |
| 6 | 25 – 1.33 | |
| 7 | Simplify 6/60 | |
| 8 | Which is the lowest number, -4 or -3? | |
| 9 | Value of the dot? | |
| 10 | List the first 4 multiples of 11 | |
| | Total out of 10 | |

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



Time machine

Here is a question from a survey.

In a time machine, would you like to go forwards or backwards in time?

People said 'Forwards', 'Backwards' or 'Don't know'.

Results:

| Forwards | 46% |
|-----------|-----|
| Backwards | 48% |

Don't know

The bar for 'Don't know' has not been drawn.

?

What percentage of people said 'Don't know'?

.....%

2 marks



HOMEWORK 8: SEQUENCES

| Bronze | Silver |
|--|--|
| Fill in the boxes to complete the sequence and give the rule for each: Q1) 46 , 39 , 32 , , , , , | Fill in the boxes to complete the sequence and give the rule for each: Q1) 43 , , 35 , 31 , |
| Q2) 44, 36, 28,,, | Q2) 3,, 13.4,, 23.8 |
| Q3) 4, 10, 16,,, | Q3) 6, 14.2,, 30.6, |
| Q4) 6, 11, 16,,, | Q4) 39, 33.5,, 22.5, |
| Q5) 3, 9, 15,,, | Q5) 5, 9,, 17, |
| Q6) 42, 38, 34,,, | Q6) 7, , 15.4, , 23.8 |

<u>Think hard...</u>

- N15,
- (a) Is 205 a term in the sequence 1, 5, 9, 13, ?
- (b) Is 200 a term in the sequence 4, 10, 16, 22, ?
- (c) Is 1000 a term in the sequence 50, 65, 80, 95,?
- (d) Is 999 a term in the sequence 11, 20, 29, 38, ?
- (e) Is 458 a term in the sequence 5, 12, 19, 26, ?



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

The numbers in this sequence increase by 9 each time.

| 1 | 10 | 19 | 28 | 37 | | | | | | | |
|--------------|-------------|---------------------------|------------|---------|----------|---------|------|--------|------------------|-----|--|
| The sequence | ce continue | es in the sa | me way. | | | | | | | | |
| Will 900 be | e in the se | quence?E | xplain why | / | | | | | | | |
| Yes / No | | | | | | | | | | | |
| | т | he numb | ers in th | nis seq | uence ir | ncrease | by 4 | l each | n time. | | |
| | | 4 | 8 | 12 | 16 | | | | | | |
| | | he numb 7 Soth sequ | 14 | 21 | 28 | | by 7 | 7 each | n time. | | |
| | | Write a I sequence | | greate | er than | 100 w | hich | will I | be in b o | oth | |



HOMEWORK 9: REAL LIFE MATHS



The following temperatures were taken in January.

| Country/State | Temperature (°C) |
|---------------|------------------|
| Amsterdam | 4 |
| Cape Town | 20 |
| Hong Kong | 15 |
| Minneapolis | -21 |
| Moscow | -17 |
| New York | -6 |
| Toronto | -16 |





1) Put the temperatures in order, from coldest to warmest.

| coldest | warmest | |
|--|---|--------|
| 2) How much colder is Amsterdar | m than Cape Town? | |
| 3) How much warmer is New York | k than Moscow? | |
| 4) Vancouver is 13 degrees warm Vancouver? | er than New York. What is the temperature | e in |
| 5) How much colder is Toronto th | nan Amsterdam? | |
| 6) What is the difference in temp | erature between the warmest and coldest | place? |
| | | |
| 7) The temperature in Detroit is 3 temperature in Detroit? | 32 degrees colder than Cape Town. What is | the |
| 8) Which two places have the close | sest temperatures? | |
| 9) Which place has the median te | emperature? | |





Captain Salamander has just returned from a round the world trip with his friend Tyger. Here are the places they visited.

| From | То | Distance (km) | Distance to nearest 100 km |
|---------------|---------------|---------------|-------------------------------|
| Washington DC | Los Angeles | 3693 | 3700 |
| Los Angeles | Tokyo | 8807 | |
| Tokyo | Bombay | 6741 | |
| Bombay | Athens | 5173 | |
| Athens | Paris | 2096 | |
| Paris | London | 343 | |
| London | Washington DC | 5899 | |

1) Fill in the distance to the nearest 100 km column.

2) Put the distances in order from shortest to longest.

shortest

3) How much further is the trip from Bombay to Athens than the trip from Washington DC to Los Angeles? _____ km

4) What is the total distance from Los Angeles to Tokyo to Bombay to Athens? _____ km

5) Tyger says 'The distance from Washington DC to Los Angles is more than 10 times the distance from Paris to London.' Is he right?

6) When arriving at Bombay, Tyger says 'So far we have travelled over 20,000 km.' Is he right?

longest



HOMEWORK 10: NUMERACY

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

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

F_CT_RS

 $\mathsf{M}_\mathsf{LT}_\mathsf{PL}_\mathsf{S}$

Q__DR_L_T_R_L

Recall and Recap

MENTAL STRATEGIES do these in your head TIMESTABLES – do these in your head

| Q | Question | Answer |
|----|--------------------------------------|--------|
| 1 | 1 + 🗆 = 20 | |
| 2 | Double 54 | |
| 3 | 22 + 10 | |
| 4 | 44 - 40 | |
| 5 | 7 = 2 + 🗆 | |
| 6 | 75 – 11 = 75 – 5 – □ | |
| 7 | 6 + 6 + 6 + 6 + 6 = 6 × □ | |
| 8 | What is the time on the clock? | pm |
| 9 | Double 7 | |
| 10 | What is half of 44? | |
| | Total out of 10 | |

| Q | Question | Answer |
|-----------------|------------|--------|
| 1 | 6 × 6 = □ | |
| 2 | 2 ÷ 2 = □ | |
| 3 | 6 × □ = 12 | |
| 4 | 40 ÷ □ = 5 | |
| 5 | 1 × 9 = □ | |
| 6 | 40 ÷ 8 = □ | |
| 7 | □ × 7 = 49 | |
| 8 | □ ÷ 3 = 1 | |
| 9 | 2 × 2 = 🗆 | |
| 10 | 48 ÷ 6 = □ | |
| Total out of 10 | | |
| | | |



| | ** | ★★★ |
|-----|-------------|-------------------------------|
| B1 | 85 × 740 | ^{c1} 0.4427 + 16.14 |
| B2 | 8007 - 5127 | c2 0.702 ÷ 1.3 |
| B3 | 3305 - 3152 | ^{c3} 98.47 + 0.8351 |
| B4 | 2527 + 4242 | c4 4.79 × 40.9 |
| B5 | 23 × 941 | cs 0.9609 - 0.2424 |
| B6 | 6113 + 9417 | ^{c6} 9.117 + 0.2734 |
| B7 | 9659 + 2820 | c7 86.6 × 2.8 |
| B8 | 116 × 54 | св 75.9 × 52 |
| B9 | 18 × 746 | сэ 34.5 × 1.24 |
| B10 | 3856 - 2529 | ^{C10} 39.77 + 0.7975 |

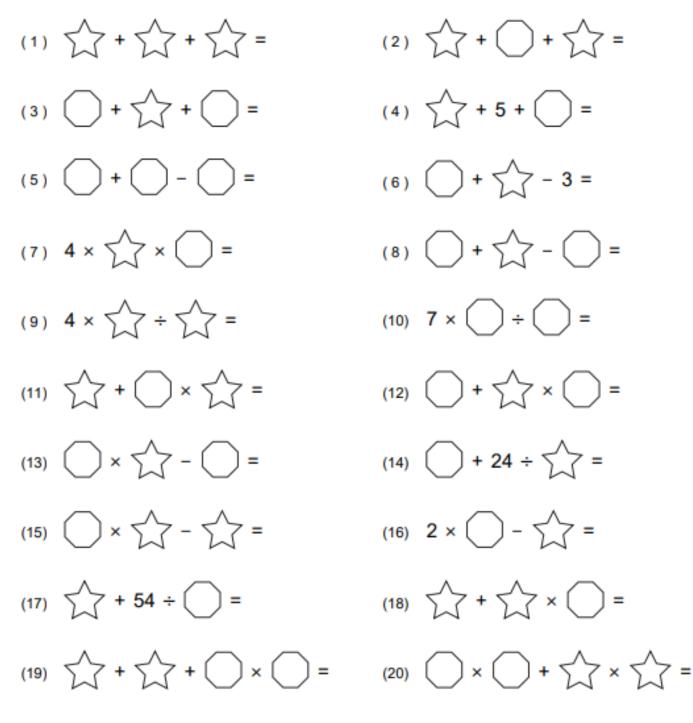
KEY SKILLS – you may use written calculations for these questions

| Q | Question | Answer |
|----|--|--------|
| 1 | What is the value of 11²? | |
| 2 | 7905 + 626 | |
| 3 | (10 – 9) × 1 | |
| 4 | Write 744620 in words. (Use the opposite page for your answer) | |
| 5 | 0.67 ÷ 100 | |
| 6 | 3 × (-1) | |
| 7 | Round 1.982 to 2 d.p. | |
| 8 | (-3) + (-6) | |
| 9 | Round 0.2352 to 3 s.f. | |
| 10 | Letter at (0, 1) y A B C D E F G H J K L M N P+x Q R S T U V W X Y Z | |
| | Total out of 10 | |

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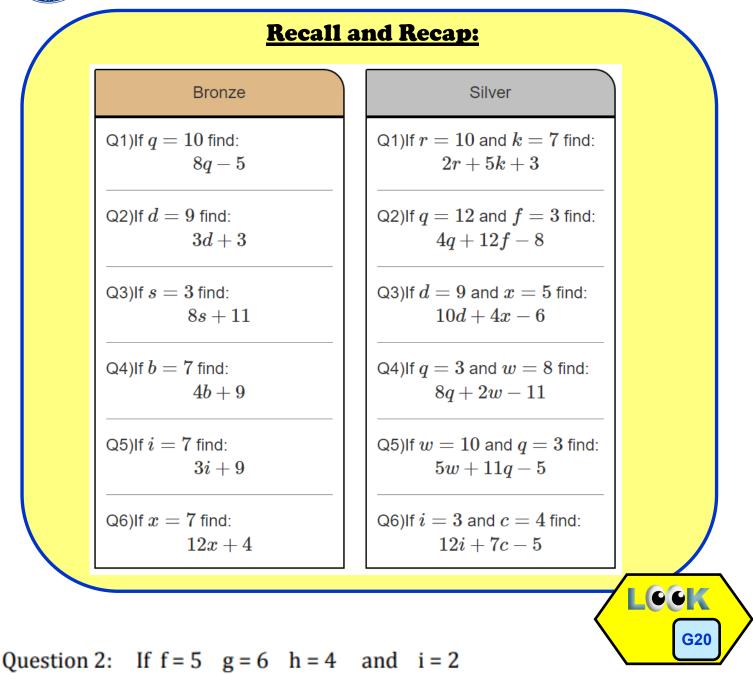
Now use what you've learned to find the answers to these:



HW 10



HOMEWORK 11: SUBSTITUTION



Question 2: If f = 5 g = 6 h = 4 and i = 2Find the value of each expression.

| (a) fg | (b) hi | (c) fgh | (d) i ³ |
|--------|-------------|-------------|--------------------|
| (e) √h | (f) 3f + 2g | (g) 5h + 7i | (h) 9h – 7i |

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

Mrs Jones is preparing the food for a party.

She uses this rule to work out how many sausage rolls to prepare

3 sausage rolls per guest plus an extra 20

How many sausage rolls should she prepare if there are 42 guests?

For the last party, Mrs Jones made 86 sausage rolls

How many guests were there at the last party?



G8, G20





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.

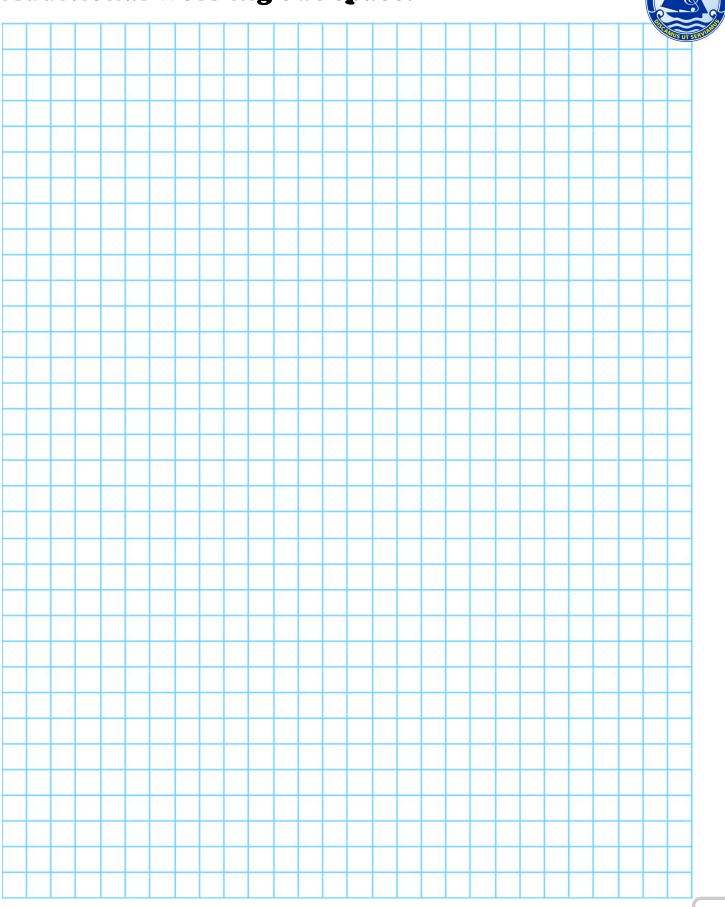
Below are the log in instructions you will need in order to access and complete this homework task.

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

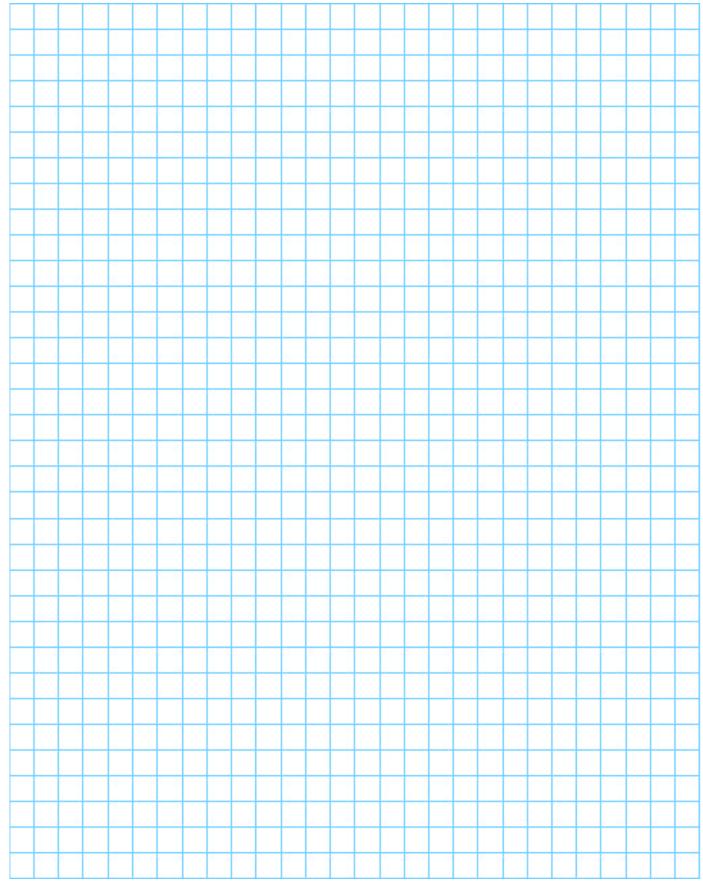
Username – firstnamelastname@benjamin

Password— your DOB (format: monthDYYYY)

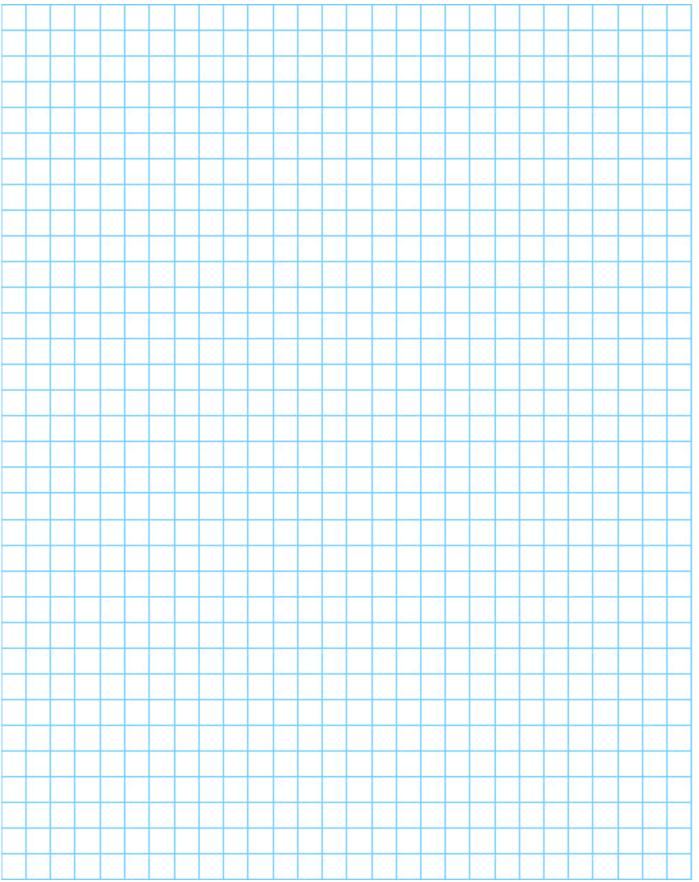
If you need a printed copy of this homework task, make sure you speak to your class teacher <u>before</u> the due date and they will print a copy for you to complete.











ANSWERS-WEEK 1

| H | | | | | |
|------------------|-----|-------|-----|----|------------|
| ¥¥¥ | | ¥¥ | | ¥ | |
| 213.646 | cı | 16560 | 18 | 32 | ٢A |
| 9 [.] 6 | cs | 92 | 28 | S | ۶A |
| 992.667 | ေဒ | 2028 | 83 | 5 | ٤A |
| 393.0672 | C4 | 1669 | 84 | 4 | P 4 |
| 415.868 | so | 13233 | 98 | 12 | SA |
| £.ð | 90 | LL | 98 | ŀ | 9 A |
| 7.0 | 20 | 814 | 28 | 8 | 74 |
| 73.438 | 80 | 18057 | 88 | 11 | 84 |
| 1.3326 | 60 | 12024 | 68 | 54 | 64 |
| 6.955 | C10 | 32025 | 018 | 3 | 014 |

| 15 | □/\4 = 3\□ | 10 |
|-----------------|--|----|
| S | Letter at (0, −1) | 6 |
| 51 | .ì.s Հ ot ۱՝ S bnuo R | 8 |
| -10 | (9-) + (9-) | L |
| 44.18 | q.b 2 of 83£ 4 .18 bnuoR. | 9 |
| 09 | (0L-) × (ð-) | G |
| 0.0035 | 0.35 ÷ 100 | 4 |
| 1035 | stigib ni owT thirt bre bresuorT enO etitw | 3 |
| 58 | (6 − 2) ₅ + 3 × ⊄ | 2 |
| 0161 | 481 + 1429 | L |
| reward | Question | g |
| 6 | □ = 9 ÷ †9 | 01 |
| 32 | □ = ∠ × S | 6 |
| 9 | □ ÷ 5 = 3 | 8 |
| L. | ⊅ = ⊅ × □ | L |
| 3 | □ = 9 ÷ 81 | 9 |
| 45 | □ = 9 × <u>/</u> | 9 |
| 9 | 54 ÷ □ = 4 | 4 |
| L | 4 × 🗆 = 28 | 3 |
| 9 | 54 ÷ 4 = □ | 5 |
| 42 | □ = ∠ × 9 | |
| JawanA | Question | Ø |
| 24 | 001 = 94 + 🗆 | 01 |
| 10 | ۲ + 3 | 6 |
| See clock above | Draw hands on the clock face showing 10:10 am | 8 |
| 5 | 13 + 13 = □ × 13 | L |
| 3 | 28 - 11 = 28 - 8 - 0 | 9 |
| S | □ + L = 9 | G |
| 61 | 59 - 10 | 4 |
| 155 | 112 + 10 | 3 |
| 011 | What is double 55? | 2 |
| | | |
| 50 | ۷۱ + ۵ | L |

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[7]

(11) 1

I

9

11

Write down these numbers in standard form.

| <u>72,082</u> | = seno 2 + snet 8 + sbnesuodt 2 + sbnesuodt net 7 | (S |
|---------------|---|----|
| 50,859 | = seno e + snet e + sberbrud e + sbresuodt net e | (1 |
| 47,300 | = sbarbnud £ + sbnssuodt 7 + sbnssuodt naf 4 | 3) |
| 2,293 | = seno 6 + snet 9 + sbarbnud 2 + sbresuodt 2 | (2 |
| 8,745 | = səno Z + snət 4 + sbərbnud 7 + sbnesuodt 8 | (τ |

| Q6) G | Q6) seven hundred | Q6) 8 |
|---------|-------------------|-----------------|
| ପ୍ରହ) ହ | ପହ) ହ | Q5) thirty |
| 04) 6 | Q4) nine thousand | Q4) six hundred |
| Q3) I | <u>(</u> 3) 8 | G3) 3 |
| Q2) 3 | Q2) 4 | G2) <u></u> |
| ପ୍ୟ) ହ | Q1) 4 | 0(1) |
| Gold | Silver | Bronze |

| sbenbrud <u>04</u> = seno 0004 | 50) | 50 tens = <mark>500</mark> ones | (6T |
|----------------------------------|------------|------------------------------------|------------|
| sbnesuod1 <u>≜</u> = s∋no 0004 | 18) | 60 tens = <u>6</u> hundreds | (LT |
| 5 hundreds = <u>50</u> tens | (9T | 70 tens = <mark>7</mark> hundreds | (ST |
| səno 004 = sbərbnud 🛓 | 1t) | 30 tens = <u>300</u> ones | 13) |
| sbnesuodt <u>8</u> = sbarbnud 08 | 15) | 2 thousands = 200 tens | (דד |
| 40 ones = 👍 tens | τ0) | 8 pundreds = <u>800</u> ones | (6 |
| 1 thousand = <u>1000</u> ones | (8 | 50 hundreds = <u>5</u> thousands | ۷) |
| 3 thousands = <u>30</u> hundreds | (9 | snət <u>6</u> = səno 0ð | (S |
| 30 tens = <u>3</u> hundreds | 4) | 2 sbosodia = 20 hundreds | 3) |
| 60 ones = <u>6</u> tens | 5) | 2 µnuqueqs = <mark>200</mark> oues | τ) |
| | | | |

(77)

| lacts | сопчегзіоп | ิธินเรรเพ | əsəut tr | моцк о |
|-------|------------|-----------|----------|----------|
| | 00,000000 | ~~~~~ | | 0 100101 |

PUZZLE TIME – find the answer to the riddle below in the table!

- I am worth more than 30 hundreds.
- I am less than 7000 ones.

2 thousands = 200 tens

- My tens digit is greater than my ones.
- I am a multiple of 5.
- SI me ortw 🔹

57)

| 2625 | 4458 | 2327 |
|------|------|------|
| 6423 | 2290 | 3726 |

sbnesuodt e = sbarbnud 0e

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| • | | |
|----------|--|----|
| səY | ls 1 a factor of 3? | 01 |
| 5 | (-1) - (-3) | 6 |
| 91 | If a = 6 b = 8 and c = 4, what is the value of (2b/c) ² | 8 |
| -5 | 6 ÷ (8L-) | L |
| 54'32 | 23.8 + 0.55 | 9 |
| 8.0 | 8/10 as a decimal number | S |
| 40.365 | 28.2 × 6.3 | 4 |
| 5017 | 9968 - 12091 | 3 |
| 5733 | 3 × 6۱۹ | 5 |
| 50 | What is 4/6 of 30? | ٢ |
| Answer | Question | Ø |
| ۱. | 5 ÷ 5 = □ | 01 |
| 54 | □ = ≯ × 9 | 6 |
| 22 | 6 = 2 ÷ 🗆 | 8 |
| 10 | 0L = L × 🗆 | L |
| 10 | $\Box = 2 \div 02$ | 9 |
| 9 | □ = L × 9 | G |
| S | 6 = □ ÷ 9⊅ | 4 |
| 9 | 2 × □ = 30 | З |
| 3 | 54 ÷ 8 = □ | 2 |
| S | □ = L × G | |
| JewenA | Question | Ø |
| 01 | 2:15 pm is how many minutes after 2:05 pm? | 01 |
| 08:23 | Write 8:23 am in 24 hour clock format | 6 |
| 9 | □ = 6 ÷ 27 os '27 = 2 × 6 | 8 |
| 5 | 629 – 627 | L |
| 09 | 74 = 24 + 🗆 | 9 |
| 62 | 101 + □ = 240 | G |
| 621 | 01 - 681 | 4 |
| 5 | \$4 to the si tertW | 3 |
| 32 | 001 = 🗆 + 89 | 2 |
| 5 | J □ + 3 = 2 | |
| Answer | Q Question | |

| 01 | 4 | 018 | 1416 | 010 | 11040 |
|----|-----|-----|------|-----|-----------|
| | S | | 6797 | 000 | 906.84 |
| 6 | | 68 | | 60 | |
| | 99 | | 2788 | | 6.73 |
| 8 | | 88 | | C8 | |
| 4 | ۱۱ | 49 | 9298 | 20 | 233.9 |
| | | | 01 | | 0000: 110 |
| 9 | L | 98 | 62 | 90 | 9096.778 |
| | 9 | | 1326 | | 0.2237 |
| s | | 98 | | C2 | |
| | 13 | | 4820 | | 7447.88 |
| \$ | | 84 | | C4 | |
| | 945 | | 79 | | 8418.279 |
| 3 | | 83 | | C3 | |
| | 3 | | 3112 | | 5172 |
| 5 | | 82 | | CS | |
| | 5 | | 9191 | | 1120.29 |
| 1 | | 81 | | CI | |
| | ¥ | | ¥¥ | | *** |

ANSWERS—WEEK 4



ə

Completes both multiplication grids correctly,

| 30 | 81- | 9- |
|-----|-----|----|
| 51- | 72 | 6 |
| g– | 8 | × |

| 9 | 3 | ۶L |
|-----|-----|----|
| 2.1 | 9.0 | 3 |
| Þ.0 | 2.0 | × |

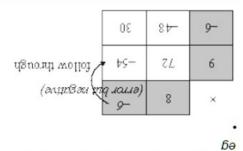
- Completes one of the grids correctly and makes not more than one error or omission in the other grid
- Completes one of the grids correctly

OL

Makes not more than one error or omission in each grid

i For 2m or 1m, follow through

For the first grid, accept follow through only from their –5 but note that their –5 must be negative



For the second grid, accept follow through only from their 15

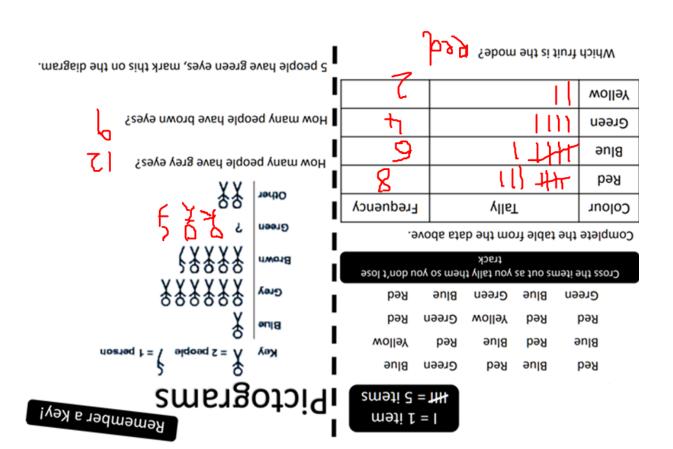
| | - | Linua |
|------|-----|---------------|
| 9 | 2 | (10118) 01 |
| 2. I | 9.0 | £ |
| Þ.0 | 2.0 | × |

follow through

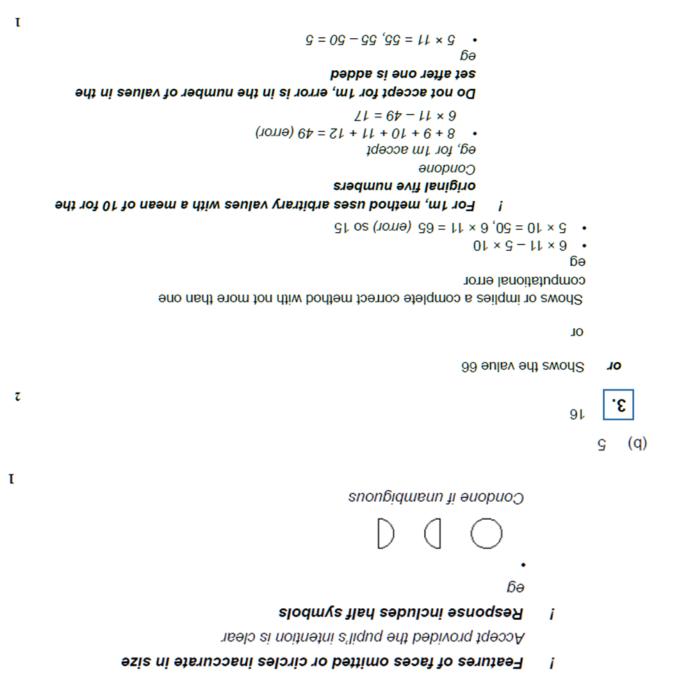
ŀ

2

3



| Q5) Mean = 10.5, Mode = 6, | Q5) Mean = 15.8, Mode = 21, |
|-----------------------------|-----------------------------|
| Median = 8.5, Range = 16 | Median = 18, Range = 17 |
| Q4) Mean = 13.5, Mode = 15, | Q4) Mean = 12.8, Mode = 20, |
| Median = 14.5, Range = 8 | 71 = 35, Range = 17 |
| Q3) Mean = 9.5, Mode = 12, | Q3) Mean = 13.4, Mode = 15, |
| Median = 10, Range = 11 | Median = 15, Range = 16 |
| Q2) Mean = 12, Mode = 7, | Q2) Mean = 13, Mode = 18, |
| ≜1 = 9pnsЯ ,01 = nsib9M | ∆2 Mean = 14, Range = 14 |
| Q1) Mean = 11.7, Mode = 14, | Q1) Mean = 10, Mode = 15, |
| Median = 12, Range = 17 | Median = 10, Range = 12 |
| Silver | Bronze |
| | |



(a) Indicates two symbols for Girls

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| 63.4 | | 38 | |
|---------|-----|-------|-----|
| | C10 | | 018 |
| 6869.0 | | 79 | |
| | 60 | | 65 |
| 384.88 | | 3885 | |
| 00 100 | 80 | 3005 | 88 |
| F: 1010 | | 07/11 | |
| 4.7813 | 20 | 11122 | 28 |
| | | | |
| 8.0 | | 28 | |
| | 90 | | 98 |
| 147.29 | | 01001 | |
| | CR | | 92 |
| 264.889 | | 41280 | |
| | C4 | | 74 |
| 9.7 | | 2٤ | |
| 52 | c3 | 24 | 83 |
| 6007.01 | | 5711 | |
| 6907.81 | cs | 1154 | 25 |
| | | | |
| 8.6 | | 2962 | |
| | C1 | | 11 |
| | | ¥¥ | |

| nswer | Guestion | Ø |
|-------|---|----|
| 3 | 01 = 7 + 🗆 | L |
| 81 | Se ∋lduob si tsrW | 2 |
| 50 | 04 evlsH | 3 |
| 141 | 111 + 30 | 4 |
| 129 | ee + e3 | G |
| 9 | □ + £ + ∠L = 6 + ∠L | 9 |
| 174 | 3 + 468 | L |
| 3 | 33 + \20 = 30 + \20 + \ | 8 |
| 911 | Double 58 | 6 |
| 3.5 | ST of the side of the side of the side of the side of the second | 01 |

| 9 | □ = £ ÷ 81 | 10 |
|-------|------------|----|
| 54 | □ = £ × 8 | 6 |
| 81 | □ ÷ e = 3 | 8 |
| L. | 6 = 6 × 🗆 | L |
| k | □ = g ÷ g | 9 |
| 22 | □ = 6 × 8 | ç |
| 8 | ∠ = □ ÷ 99 | 4 |
| 3 | g × □ = 15 | 3 |
| 9 | □ = 9 ÷ 9£ | 5 |
| 15 | Q × 2 = □ | ŀ |
| rewer | Question | g |

| ٥٢ | List the first 4 multiples of 11 | 11, 22, 33, 44 |
|----|---------------------------------------|----------------|
| 6 | See number line | 9.0 |
| 8 | Which is the lowest number, -4 or -3? | 7 -4 |
| L | 06/9 كانتر) انترك (08/6 | 01/1 |
| 9 | 5e - 1.33 | 23.67 |
| G | 71.204 × 100 | 7120.4 |
| 4 | 28.82 ÷ 0.5 | \$9.78 |
| 3 | 5 ÷ 31 – 38 | 82 |
| 2 | 9 ÷ 01/1 | 345 |
| ٢ | What is 125% of £150? | 05.7813 |
| g | Question | J9wenA |

ANSWERS-WEEK 7

9

- Shows the value 94 or the values 4 and 2 JO
- OL
- бə Shows a complete correct method with not more than one computational error
- (84 + 84) 001 • 100-46-48
- 100 46 = 53 (error)
- 5 = 48 = 5

Do not accept for 1m, necessary brackets omitted

- 87 + 97 001 · Бə

- (ə) οN (p) οN
- (c) οΝ
- (q) οΝ
- səY (6)

Rule: Subtract 4 Ge) 30[°] 59[°] 55

8 bbA : sluA 05) 21, 27, 33

₿ bbA :9luЯ 04) 51, 26, 31

3 bbA : sluA 03) 22, 28, 34

Rule: Subtract 8 02) 20, 12, 4

Rule: Subtract 7 01) 25, 18, 11

Bronze

S.I∮ bbA :9InЯ 0.01, 2.11 (00

> ₽ bbA :9InЯ 05) 13, 21

Rule: Subtract 5.5 04) 58, 17

> S.8 bbA : sluA Q3) 22.4, 38.8

S.d bbA :sluA 02) 8.2, 18.6

Rule: Subtract 4 01) 36, 27

J9VIIS

211 78 95 82 saouanbas Write a number greater than 100 which will be in both Both sequences continue 7 14 21 28 ... The numbers in this sequence increase by 7 each time. 4 8 15 16 ... The numbers in this sequence increase by 4 each time. 9 is in the sequence. them the multiples of 9. Therefore so multiple of Ead runder in the sequence is one more ON r səl Will 900 be in the sequence? Explain why

Captain Salamander has just returned from a round the world trip with

his friend Tyger. Here are the places they visited.

| Fill in the distance to the nearest 100 km column. | | | | | |
|--|---------------|---------------|---------------|--|--|
| 0065 | 6685 | DG notgninkeW | иориој | | |
| 300 | 343 | иориој | Paris | | |
| 5100 | 9607 | Paris | snahtA | | |
| 2200 | 27 <u>7</u> 3 | snədtA | Bombay | | |
| 0029 | T478 | Вотрау | τοκγο | | |
| 0088 | Z088 | τοκγο | sələgnA soJ | | |
| 3200 | 8698 | sələgnA soJ | DG notgninkeW | | |
| nearest 100 km | | | | | |
| Distance to | Distance (km) | оΤ | From | | |

דע וווע וווב מוצופערב נס נעב עבפעבצר דסס א

Put the distances in order from shortest to longest.

| longest | | | | | | shortest |
|---------|------|------|------|------|------------------|----------|
| ۲088 | 1770 | 6685 | εζις | 8698 | 960 7 | 543 |

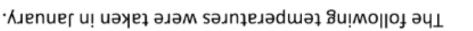
my 0841 SeelegnA sol of OC notgningeW mont 3) How much further is the trip from Bombay to Athens than the trip

Mthens? 15548 km 4) What is the total distance from Los Angeles to Tokyo to Bombay to

343 x io = 3430than 10 times the distance from Paris to London.' Is he right? not 5) Tyger says 'The distance from Washington DC to Los Angles is more

20,000 km.' Is he right? 6) When arriving at Bombay, Tyger says 'So far we have travelled over

17201 = 1770 + 7088 + 8085OU





| 91- | Toronto |
|------------------|---------------|
| 9- | New York |
| ۲- | Moscow |
| -53 | ziloqsənniM |
| ST | Brong Kong |
| 50 | rwoT əqsƏ |
| 4 | mebrətemA |
| Temperature (°C) | Country/State |

1) Put the temperatures in order, from coldest to warmest.

| 5) How much colder is Toronto than Amsterdam؟ مامد 20° colder |
|---|
| 4) Vancouver is 13 degrees warmer than New York. What is the temperature in |
| 3) How much warmer is New York than Moscow? II warmer |
| 2) How much colder is Amsterdam than Cape Town? |
| coldest warmest |
| 07- <u>51-</u> <u>-</u> <u>-</u> <u>9-</u> <u>91-</u> <u>71-</u> <u>17-</u> |

6) What is the difference in temperature between the warmest and coldest place? 41 _____

7) The temperature in Detroit is 32 degrees colder than Cape Town. What is the temperature in Detroit? <u>12</u>

8) Which two places have the closest temperatures? Minneapolis and Moscow

9) Which place has the median temperature? New York

| | | O Onestion | | | Answer | | |
|----|-----------------|-------------------------|---------|------------|--------|-----|--------------|
| ١0 | to then si tenW | lf of 44? | 52 | ſ | | | |
| 6 | ∑ əlduoD | | 14 | , ľ | | 1 | |
| 8 | mit edt si tsdW | e time on the clock? | mq 02:4 | 018 | 1327 | 010 | 9792.04 |
| L | +9+9+9+9 | $\Box \times 9 = 9 + 9$ | S | 68 | 13428 | 60 | 42.78 |
| 9 | - 92 = LL - 92 | □ - 9 - 92 | 9 | | 6264 | | 3946.8 |
| G | L = 2 + □ | | S | 88 | | 80 | |
| 4 | 07 - 44 | | 4 | 28 | 12479 | 20 | 242.48 |
| 3 | 52 + 10 | | 32 | 98 | 12230 | 90 | 9.3904 |
| 2 | ₽duoD | | 801 | | 51643 | | 9817.0 |
| ٢ | J + □ = 50 | (| 61 | 82 | 00.10 | C2 | 110:001 |
| ğ | Question | | J9W2NA | 84 | 6929 | C4 | 116.301 |
| | | | | 6 8 | 123 | ေ | 1305.99 |
| | | | | 82 | 2880 | cs | 4 8.0 |
| | | | | 84 | 00629 | cı | 7288.91 |
| | | | | | ¥¥ | | *** |

| ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | |
|--|------------|----|
| 8 | □ = 9 ÷ 8⊅ | 01 |
| 4 | 5 × 5 = 🗆 | 6 |
| 3 | L = 2 ÷ □ | 8 |
| L | 67 = 7 × 🗆 | L |
| S | □ = 8 ÷ 0⊅ | 9 |
| 6 | □ = 6 × ↓ | G |
| 8 | g = □ ÷ 0† | 4 |
| 5 | e × □ = 12 | 3 |
| k | 5 ÷ 5 = □ | 2 |
| 36 | □ = 9 × 9 | ŀ |
| Answer | Question | ď |

| Answer | Question | Ø |
|--|--|----|
| 121 | ۲۵۴ is the value of ۱۱ ² ؟ | ٢ |
| 8234 | 7905 + 626 | 5 |
| k i i | ↓ × (6 – 0↓) | 3 |
| Seven Hundred and Forty Four Thousand, Six Hundred and Twenty | Write 744620 in words. (<u>Use</u> the <u>opposite</u> page for your answer) | 4 |
| 2900.0 | 001 ÷ 73.0 | 9 |
| £- | (1-) × E | 9 |
| 86.h | .q.b 2 of S8e.f bruoP | L |
| 6- | (-3) + (-6) | 8 |
| 0.235 | J.e £ of 2352.0 bnuoP. | 6 |
| н | Letter at (0, 1) | 01 |

ANSWERS-WEEK 10

$$2 + 4 = \frac{3}{2}$$

Now use what you've learned to find the answers to these:

$$(11) \quad [3]{} + 2q \div [d]{} = d$$

$$(12) \quad [d]{} \times [2q \div [d]{} = d$$

$$(12) \quad [d]{} \times [2q \div [d]{} = 2d$$

$$(12) \quad [d]{} \times [2q \div [d]{} = 2d$$

$$(13) \quad [d]{} \times [2q \div [d]{} = 2d$$

$$(14) \quad [d]{} \times [2q \div [d]{} = 2d$$

$$(14) \quad [d]{} \times [2q \div [d]{} = 2d$$

$$(14) \quad [d]{} \times [2q \div [d]{} = 2d$$

$$(14) \quad [d]{} \times [2q \div [d]{} = 2d$$

$$(14) \quad [d]{} \times [2q \div [d]{} = 2d$$

$$(14) \quad [d]{} \times [2q \div [d]{} = 2d$$

$$(15) \quad [d]{} \times [2q \div [d]{} = 2d$$

$$(16) \quad [d]{} \times [2q \div [d]{} = 2d$$

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$$01 = \cancel{b} \times \cancel{3} \times \cancel{b} \times \cancel{1}$$

b - b + b (g)

$$\frac{1}{2} = 2 \underbrace{3}{5} \div 2 \underbrace{3}{5} \times 7 \quad (6)$$

$$111) \quad \underbrace{33}_{3} + \underbrace{4}_{3} \times \underbrace{13}_{3} = 30$$

$$(13) \quad \mathbf{d} \times \underbrace{\mathbf{33}}_{\mathbf{3}} - \underbrace{\mathbf{d}}_{\mathbf{3}} = \mathbf{18}$$

$$\frac{1}{3} = \frac{1}{3} - \frac{1}{3} = \frac{1}{3} = \frac{1}{3}$$

$$b = b \div pg + 2$$

$$= \underbrace{b} \times \underbrace{b} + \underbrace{235} + \underbrace{4} \times \underbrace{6}$$

 $87 \quad (20) \quad \textbf{q} \times \textbf{q} + 52 \times 53 \times 33 \times 33 \times 33$

| ZZ (Y) | tβ (β) | 72 (f) | ζ (ə) |
|--------|---------|--------|----------|
| 8 (p) | (c) 150 | 8 (q) | (a) 30 |
| | | :2 | Question |

| Ge) 29 | Ge) 88 |
|---------|----------------|
| G5) 78 | G2) 30 |
| Q4) 29 | 04) 37 |
| Q3) 104 | 0 3) 32 |
| 02) 76 | 05) 30 |
| G1) 28 | G1) 75 |
| Silver | Bronze |

22

9711

How many guests were there at the last party?

For the last party, Mrs Jones made 86 sausage rolls

42 guests?

How many sausage rolls should she prepare if there are

3 sausage rolls per guest plus an extra 20

She uses this rule to work out how many sausage rolls to prepare

Mrs Jones is preparing the food for a party.

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

Benjamin Britten Academy of Music and Mathematics

