

# A Guide for Home Learning CLIC 15

In school, each week, children complete a CLIC challenge. The answers that they provide tell their teacher what skils they understand and allow teachers to focus on teaching the skills that they don't (as well as new skills that will be taught). If your child completes their challenges online at school, you may have been sent a link to log on at home. This pupil log on only allows children to complete one challenge a week. We are currently building a new pupil area, which will help with home learning.



This guide provides you with a copy of a CLIC challenge, a description of the skill each question is challenging and some sample resources for each question to help with home learning. (A description of each of these resources is on the next page.) The key is to keep it fun, no pressure and limit the time to less than 20 minutes a day, unless your child wants to carry on!

Please seek and follow advice from your child's teacher and school!

# What skill does each question challenge?

Question 1 I can understand 2dp numbers

Question 2 I can halve any 3d number

Question 3 I can divide whole numbers by 10 or 100 giving decimal answers

Question 4 I can find factors

Question 5 I can solve 3d - 2d

Question 6 I can solve any 3d + 2d

Question 7 I can solve 1d x 2d (2, 3, 4, 5 times tables)

Question 8 I can combine 2 or more Tables Facts to solve division (with remainders: 2, 3, 4, 5 times tables)

Question 9 I can solve any 3d - 2d

Question 10 I can solve a 2d x 1d

# Remember To's

Every step of learning (skill) in Big Maths has 'Remember to...'s. These are simple reminders for children to 'Remember to' do this, this, etc...

In Big Maths, we have divided complicated skills into small steps, provided 'Remember to...'s and examples to keep it simple for children.

A Progress Drive is a collection of skill steps that progress a child's learning to the point of mastering the larger objective.

## **Repeat Sheets**

Repeat sheets contain a number of questions (usually 10) that you can use for repeat practice of a particular step. Please feel free to create your own repeat questions to avoid children simply memorising the questions and answers.

# **Revisit Sheets**

Revisit sheets contain a number of questions (usually 10) that you can use which include a unit of measure applied to the numbers (It's Nothing New!) of a particular step. Please feel free to create your own revisit questions to avoid children simply memorising the questions and answers.

# **Real Life Maths Sheets**

Real Life Maths sheets contain a number of questions (usually 5) where the questions have been placed into worded scenarios for a particular step, increasing the complexity and challenge further. Please feel free to create your own real life maths questions to avoid children simply memorising the questions and answers.

# Select Sheets

Select sheets contain a number of worded questions (usually 5) which no longer automatically relate to the step we are on. These increase the complexity and challenge further still. Please feel free to create your own select questions to avoid children simply memorising the questions and answers.

# CLIC 15

The following CLIC challenge is an example for you to use to practice at home. We have included the answer sheet as well. Please feel free to create your own additional questions by changing the numbers for any that your child gets wrong. In this pack, there is additional advice for each question, with resources that can help with home learning. It is important that you use the correct challenge level as provided by your teacher.





# Question - I can understand 2 decimal place numbers

- order the numbers by their whole numbers
- then, if they have the same whole number, order by the tenths digit
- then, if they have the same tenths digit, order by the hundredths digit







# **Revisit** Questions







# Question 2 - I can halve any 3 digit number

- partition the 3d number
- half the hundreds
- half the tens
- half the units
- put them back together again



# **Repeat** Questions









# **Revisit** Questions









# Real Life Maths Questions

| Step<br>6 | Halving With Pim       |
|-----------|------------------------|
| ١c        | an halve any 3d number |

### **Remember to:**

- partition the 3d number
- halve the hundreds
- halve the tens
- halve the ones (units)
- put them back together again

1 Pim has 532 oranges. He shares them between 2 friends. How many oranges does each friend have? 2 Pom has 784L of water. He pours it into 2 barrels. How much water is in each barrel? 3 Mully has 379kg of salt. He puts it into 2 piles. How much salt is in each pile? 4 What is half of 975? 5 Pim shared £468 between two friends. How much money does each friend have?



# Real Life Maths Answers



1

### **Remember to:**

- partition the 3d number
- halve the hundreds
- halve the tens
- halve the ones (units)
- put them back together again

Pim has 532 oranges. He shares them between 2 friends. How many oranges does each friend have?

### They have 266 oranges each.

2 Pom has 784L of water. He pours it into 2 barrels. How much water is in each barrel?

### There is **392L** of water in each barrel.

<sup>3</sup>Mully has 379kg of salt. He puts it into 2 piles. How much salt is in each pile?

### There is 189.5kg of salt in each pile.

What is half of 975?

The answer is 487.5.

<sup>5</sup> Pim shared £468 between two friends. How much money does each friend have?

They have £234 each.

# Question 3 - I can divide whole numbers by 10 or 100 giving decimal answers

- move the digits one place to the right
- remember that this makes the number 10 times smaller (adapt accordingly for dividing by 100)



# **Repeat** Questions









# **Revisit** Questions









Step

1

2

3

4

5

# **Real Life Maths** Questions

### Dividing by 10

I can divide whole numbers by 10 or 100 giving decimal answers

### **Remember to:**

- move the digits one place to the right
- remember that this makes the number 10 times smaller (adapt accordingly for dividing by 100)

Pim has 65kg of apples. He shared them between 10 people. How many kilograms of apples does each person get?

Pom has 447kg of rocks. He makes 100 piles. How many kilograms of rocks are in each pile?

Count Fourways ran 325km in total. He did 10 laps. How far was each lap?

Mully has a barrel containing 185L of water. He pours it into 100 cups. How much water is in each cup?

What is 86 shared by 10?



Step

1

2)

3

4

5

# Real Life Maths Answers

### Dividing by 10

I can divide whole numbers by 10 or 100 giving decimal answers

### **Remember to:**

- move the digits one place to the right
- remember that this makes the number 10 times smaller (adapt accordingly for dividing by 100)

Pim has 65kg of apples. He shared them between 10 people. How many kilograms of apples does each person get?

Each person gets 6.5kg of apples.

Pom has 447kg of rocks. He makes 100 piles. How many kilograms of rocks are in each pile?

There are 4.47kg of rocks in each pile.

Count Fourways ran 325km in total. He did 10 laps. How far was each lap?

Each lap was 32.5km.

Mully has a barrel containing 185L of water. He pours it into 100 cups. How much water is in each cup?

Each cup contains 1.85L of water.

What is 86 shared by 10?

The answer is 8.6.

Question



**Repeat** Questions





**Repeat** Answers



# Question 5 - I can solve 3 digit - 2 digit

- show the gap on a number line
- draw a line at 100
- jump to 100
- jump from 100
- add the two jumps

















- show the gap on a number line
- draw a line at 100
- jump to 100
- jump from 100
- add the two jumps






## Question 6 - I can solve any 3 digit + 2 digit

- park up the 100s
- solve the 2d add 2d
- add the 100s back on













#### Remember to:

- park up the 100s
- solve the 2d add 2d
- add the 100s back on

1 What is the sum of 843 and 98? **2**] Mully has 676L of orange juice in a barrel. He adds 76L more. How much liquid is in the barrel? **3** Pom is 209cm tall. Pim is 87cm tall. How tall are they together? **4** Speedy Col made a pile of 793 sweets. She put 38 more sweets in the pile. How many are in the pile now? 5 J Pim has 562 sweets. Pom has 76 sweets. How many do they have altogether?





- park up the 100s
- solve the 2d add 2d
- add the 100s back on







## Question 7 - I can solve 1 digit x 2 digit (2, 3, 4, 5x tables)

- partition the 2d number
- write out the 2 questions
- times the units
- times the tens (Smile Multiplication)
- add the answers to find the total



## Repeat Questions

|                                  | Remember To:   |
|----------------------------------|--|
| Step<br>11 Multiplication        | <ul> <li>partition the 2d number</li> </ul>                            |
|                                  | <ul> <li>Write out the 2 questions</li> <li>times the units</li> </ul> |
| l can solve 1d x 2d (2, 3, 4, 5x | <ul> <li>times the tens (Smile Multiplication)</li> </ul>              |
| tables)                          | <ul> <li>add the answers to find the total</li> </ul>                  |
|                                  |  |
|                                  |  |
| $2 \times 36 =$                  | - 2 x 9/ =   |
|                                  |  |
|                                  |  |
|                                  |  |
| 3 A v Z5 -                       | 4 z x 02 -   |
|                                  | J X 92 -   |
|                                  |  |
|                                  |  |
|                                  |  |
| 5 4 x 22 =                       | 6 2 x 71 =   |
|                                  | 2 ~ / 1 -  |
|                                  |  |
|                                  |  |
|                                  |  |
| $7 4 \times 12 =$                | $8 4 \times 49 =$  |
|                                  |  |
|                                  |  |
|                                  |  |
|                                  |  |
| <sup>9</sup> 2 x 41 =            | <sup>10]</sup> 4 x 27 =  |
|                                  |  |
|                                  |  |
|                                  |  |
|                                  |  |







## **Repeat** Questions

|   | Remember To:   |
|---|--|
| Step<br>11 Multiplication   | partition the 2d number  |
|   | <ul> <li>write out the 2 questions</li> <li>times the units</li> </ul> |
| l can solve 1d x 2d (2, 3, 4, 5x  | <ul> <li>times the tens (Smile Multiplication)</li> </ul>              |
| tables)   | <ul> <li>add the answers to find the total</li> </ul>                  |
|   |  |
|   |  |
| $\frac{1}{3} \times 23 =$   | $^{2}$ 3 x 45 =  |
|   |  |
|   |  |
|   |  |
|   |  |
| <sup>3</sup> 3 x 35 =   | $\frac{4}{3}$ 3 x 43 =   |
|   |  |
|   |  |
|   |  |
|   |  |
| <sup>3</sup> 3 x 55 =   | <sup>o</sup> 3 x 24 =  |
|   |  |
|   |  |
|   |  |
| 7   |  |
| <sup>-</sup> | <sup>_</sup> <sup>_</sup> <sup>3</sup> x 34 =                          |
|   |  |
|   |  |
|   |  |
| 9 7 70  |  |
| 5 x 52 =  | 5 x 42 =   |
|   |  |
|   |  |
|   |  |























## Real Life Maths Questions

| Step<br>11MultiplicationI can solve 1d x 2d (2, 3, 4, 5x<br>tables)  | <ul> <li>Remember to:</li> <li>partition the 2d number</li> <li>write out the 2 questions</li> <li>times the ones (units)</li> <li>times the tens (Smile Multiplication)</li> <li>add the answers to find the total</li> </ul> |  |
|--|--|--|
| <ul> <li>add the answers to find the total</li> <li>4 friends put together their sweets. They each have 52 sweets.<br/>How many are there in total?</li> </ul> |  |  |
| 2 A box of chocolates has 5 options in it. How many chocolates are in 34 boxes?  |  |  |
| A box of oranges weighs 3kg. There are 25 boxes. What is the total weight?   |  |  |
| A jug contains 5L of water. There are 43 jugs. How much water is there in total?   |  |  |
| 5 What is 3 times 44?  |  |  |



### Real Life Maths Answers

**Remember to:** Step **Multiplication** • partition the 2d number 11 • write out the 2 questions • times the ones (units) I can solve 1d x 2d (2, 3, 4, 5x tables) • times the tens (Smile Multiplication) add the answers to find the total 1 J 4 friends put together their sweets. They each have 52 sweets. How many are there in total? There are 208 sweets. 2 J A box of chocolates has 5 options in it. How many chocolates are in 34 boxes? There are 170 chocolates. 3 J A box of oranges weighs 3kg. There are 25 boxes. What is the total weight? The total weight is 75kg. **4** A jug contains 5L of water. There are 43 jugs. How much water is there in total? There is 215L in total. 5 J What is 3 times 44? The answer is 132.



## Select Questions





## Question 8 - I can combine 2 or more Tables Facts to solve division (with remainders: 2, 3, 4, 5 times tables)

- think of 10 lots
- see how many more there are
- add on how many lots this is too
- find the remainder



# Repeat Questions

|   | Remember To:  |
|---|---|
| Step<br>19DivisionI can combine 2 or more Tables<br>Facts to solve division (with<br>remainders) (2, 3, 4, 5x tables) | <ul> <li>think of 10 lots</li> <li>see how many more there are</li> <li>add on how many lots this is too</li> <li>find the remainder</li> </ul> |
| 1 38 ÷ 3 =  | <sup>2</sup> 72 ÷ 5 =   |
| <sup>3</sup> 40 ÷ 3 =   | 4 73 ÷ 5 =  |
| <sup>5</sup> 35 ÷ 2 =   | <sup>6</sup> 35 ÷ 3 =   |
| <sup>7</sup> 66 ÷ 5 =   | <sup>8</sup> 34 ÷ 3 =   |
| 9 31 ÷ 2 =  | <sup>10</sup> 37 ÷ 3 =  |







|   | Remember To:  |
|---|---|
| Step<br>19DivisionI can combine 2 or more Tables<br>Facts to solve division (with<br>remainders) (2, 3, 4, 5x tables) | <ul> <li>think of 10 lots</li> <li>see how many more there are</li> <li>add on how many lots this is too</li> <li>find the remainder</li> </ul> |
| <sup>1</sup> 40m ÷ 3 =  | <sup>2</sup> 84cm ÷ 5 =   |
| <sup>3</sup> 41km ÷ 3 =   | 4 73g ÷ 5 =   |
| 5 35mg ÷ 2 =  | <sup>6</sup> 35L ÷ 3 =  |
| <sup>7</sup> 66ml ÷ 5 =   | <sup>8</sup> 34s ÷ 3 =  |
| 9 <b>31mm ÷ 2 =</b>   | <sup>10</sup> 37kg ÷ 3 =  |







Step

19

1

2)

5

## Real Life Maths Questions

#### Division

I can combine 2 or more Tables Facts to solve division (with remainders) (2, 3, 4, 5x tables)

#### **Remember to:**

- think of 10 lots
- see how many more there are
- add on how many lots this is too
- find the remainder

Pim has 23 toys. He shared them between 2 people. How many toys does each person get? How many toys are left over?

There are 5 people at a party. Pim has 72 sweets to share. How many sweets does each person get? How many sweets are left over?

<sup>3</sup> Pim has £37. He shares the money between 3 people. How much does each person get? How much money is left?

Pim has a jug containing 50L of water. He pours it into 4 jugs.
 How much liquid is in each jug? How much water is left?

What is 54 shared by 4? What is the remainder?



Step

19

### Real Life Maths Answers

#### Division

I can combine 2 or more Tables Facts to solve division (with remainders) (2, 3, 4, 5x tables)

#### **Remember to:**

- think of 10 lots
- see how many more there are
- add on how many lots this is too
- find the remainder

1 Pim has 23 toys. He shared them between 2 people. How many toys does each person get? How many toys are left over? Each person gets 11 toys. There is 1 toy left over. 2 There are 5 people at a party. Pim has 72 sweets to share. How many sweets does each person get? How many sweets are left over? Each person gets 14 sweets. There are 2 sweets left over. 3 Pim has £37. He shares the money between 3 people. How much does each person get? How much money is left? Each person gets £12. There is £1 left over. 4 Pim has a jug containing 50L of water. He pours it into 4 jugs. How much liquid is in each jug? How much water is left? There is 12L of water in each jug. There is 2L left over. 5 What is 54 shared by 4? What is the remainder? The answer is 13. The remainder is 2.





## Question 9 - I can solve any 3 digit - 2 digit




## **Question Practice Resources**

## Question 10 - I can solve a 2 digit 1 digit



