

A Guide for Home Learning CLIC 16

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 partition a 1dp number

Question 2 I can count along in 4 ways: -1s

Question 3 I can multiply decimals by 10

Question 4 I can find Mully using Smile Multiplication

Question 5 I can add tenths

Question 6 I can solve **any** 1 digit x 1 digit

Question 7 I can use a Tables Fact to find a division fact

Question 8 I can combine 2 or more Tables Facts to solve division

Question 9 I can solve **any** 3 digit - 3 digit

Question 10 I can solve a 3d ÷ 1d (using any table) (No remainders in answer)

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 16

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 1 - I can partition a 1 decimal place number

- write the number
- draw the sticks
- copy the units digit
- copy the tenths digit with 'zero-point' in front of it









Question 2 - I can count along in 4 ways: -1s



Repeat Questions





Repeat Answers





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9 -95mm, -94mm, 10 -66kg, -67kg,



Question 3 - I can multiply decimals by 10

- move the digits one place to the left
- remember that this makes the number 10 times bigger



















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Real Life Maths Questions

I can multiply decimals by 10

Multiplying by 10

Remember to:

- move the digits one place to the left
- remember that this makes the number 10 times bigger

Pim has 10 boxes. Each box has 5.4kg of apples. How many kilograms of apples are there in total?

There are 10 people at a party. Each person gets 1.6L of juice. How much juice is there in total?

A bag of sweets costs £3.90. Pim buys 10 bags. How much does that cost?

Pim ran 10 laps of 8.6km. How far did he run in total?

Pim has 10 jugs of Coca Cola. Each jug contains 9.1L. How much Coca Cola is there in total?



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Real Life Maths Answers

I can multiply decimals by 10

Multiplying by 10

Remember to:

- move the digits one place to the left
- remember that this makes the number 10 times bigger

Pim has 10 boxes. Each box has 5.4kg of apples. How many kilograms of apples are there in total?

There are 54kg of apples.

There are 10 people at a party. Each person gets 1.6L of juice. How much juice is there in total?

There is 16L of juice.

A bag of sweets costs £3.90. Pim buys 10 bags. How much does that cost?

It costs £39.

Pim ran 10 laps of 8.6km. How far did he run in total?

He ran 86km in total.

Pim has 10 jugs of Coca Cola. Each jug contains 9.1L. How much Coca Cola is there in total?

There is 91L of Coca Cola in total.

Question 4 - I can find Mully using Smile Multiplication

Remember to:

 start by letting the Smile Multiplication fact 'jump out' at you



Sto	INN: Finding Multiples	E	He's hiding behind the biggest multiple of 9 without going past 275. So Where's Mully? Where is Mully hiding?
Ren	start by letting the Smile Multiplication fact 'jump out' at you		Which multiple is it and how do you know? How many are left over at the end? 270
1	He's hiding behind the biggest multiple of 2 without going past 121.	2	He's hiding behind the biggest multiple of 7 without going past 354.
3	He's hiding behind the biggest multiple of 8 without going past 562.	4	He's hiding behind the biggest multiple of 4 without going past 123.
5	He's hiding behind the biggest multiple of 5 without going past 402.	6	He's hiding behind the biggest multiple of 8 without going past 167.
7	He's hiding behind the biggest multiple of 9 without going past 545.	8	He's hiding behind the biggest multiple of 3 without going past 212.
9	He's hiding behind the biggest multiple of 4 without going past 363.	10	He's hiding behind the biggest multiple of 6 without going past 243.















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Real Life Maths Questions

I can find Mully using Smile Multiplication

INN: Finding Multiples

Remember to:

 start by letting the Smile Multiplication fact 'jump out' at you

Mully is hiding behind an orange. It is the highest multiple of 4 without going past 202. Where is he hiding?

2 Mully is hiding behind a rock. It is the highest multiple of 8 without going past 645. Where is he hiding?

Mully is hiding behind a barrel. It is the highest multiple of 3 without going past 92. Where is he hiding?

Mully is hiding behind a building. It is the highest multiple of 9 without going past 635. Where is he hiding?

Mully is hiding behind a tree. It is the highest multiple of 4 without going past 241. Where is he hiding?



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Real Life Maths Answers

I can find Mully using Smile Multiplication

INN: Finding Multiples

Remember to:

 start by letting the Smile Multiplication fact 'jump out' at you

Mully is hiding behind an orange. It is the highest multiple of 4 without going past 202. Where is he hiding?

He's hiding behind the 200th orange.

2 Mully is hiding behind a rock. It is the highest multiple of 8 without going past 645. Where is he hiding?

He's hiding behind the 640th rock.

Mully is hiding behind a barrel. It is the highest multiple of 3 without going past 92. Where is he hiding?

He's hiding behind the 90th barrel.

4 Mully is hiding behind a building. It is the highest multiple of 9 without going past 635. Where is he hiding?

He's hiding behind the 630th building.

Mully is hiding behind a tree. It is the highest multiple of 4 without going past 241. Where is he hiding?

He's hiding behind the 240th tree.

Question 5 - I can add tenths

- use your addition Learn Its
- swap 'the thing' to a tenth







Repeat Answers





Revisit Questions













Question 6 - I can solve any 1 digit x 1 digit

Remember to:

• Learn It!

















Question 7 - I can use a Tables Fact to find a division fact (with remainders) (x6, 7, 8, 9)

- use your Learn Its and Fact Families to give the answer
- say the remainder











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Real Life Maths Questions

Step Division 21 Division I can use a Tables Fact to find a division fact (with remainders) (x6, 7, 8, 9)

Remember to:

- use your 'Learn Its' and Fact Families to give the answer
- say the remainder

Pim has 67 cards. He shared them between 7 people. How many cards does each person get? How many cards are left over?

Pim has 56 apples. He puts them into 6 boxes. How many apples are in each box? How many apples are left over?

A chocolate bar costs £9. Pim has £76. How many chocolate bars can he buy? How much money is left over?

Pim has a jug containing 70L of water. He pours it into 8 jugs. How much liquid is in each jug? How much water is left over?

What is 32 shared by 6? What's the remainder?



Real Life Maths Answers







Question 8 - I can combine 2 or more Tables Facts to solve division (with remainders)

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







Remember To:		
Step 23DivisionI can combine 2 or more Tables Facts to solve division (with remainders) (x6, 7, 8, 9)	 think of 10 lots see how many more there are add on how many lots this is too find the remainder 	
¹ 31m ÷ 2 =	² 27cm ÷ 2 =	
³ 99km ÷ 7 =	4 87g ÷ 7 =	
⁵ 58mg ÷ 3 =	⁶ 25L ÷ 2 =	
⁷ 81ml ÷ 6 =	⁸ 27s ÷ 2 =	
⁹ 74mm ÷ 6 =	¹⁰ 100kg ÷ 8 =	



74mm ÷ 6 = 12mm r2mm 100kg ÷ 8 = 12kg r4kg



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Real Life Maths Questions

Division

I can combine 2 or more Tables Facts to solve division (with remainders) (x6, 7, 8, 9)

Remember to:

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

1 What is 97 shared by 8? What is the remainder? 2 Mully makes 9 piles from 111g of sugar. How much does each pile weigh? How much sugar is left over? 3 Pim has 93kg of sand. He makes 7 piles. How much does each pile weigh? How much sand is left over? 4 Pom has £75. A bag of pears costs £6. How many bags of pears can he buy? How much money is left over? 5 There are 6 people at a party. Pim has 71 sweets to share. How many sweets does each person get? How many sweets are left?



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Real Life Maths Answers

Division

I can combine 2 or more Tables Facts to solve division (with remainders) (x6, 7, 8, 9)

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







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





Question 10 - I can solve a 3d ÷ 1d (using any table) with no remainders in the answer







