

A Guide for Home Learning

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 count along in 4 ways: 50s

Question 2 I know the Fact Families for 1d + 1d facts

Question 3 I can double 2d numbers

Question 4 I can double 2d multiples of 10

Question 5 I can add 10 to a 2d tens number

Question 6 I can add 10 to any 2d number

Question 7 I can add a 1d number to a multiple of 10

Question 8 I can take 10 from a multiple of 10

Question 9 I can take 10 from a 2d number

Question 10 I can take a multiple of 10 from a multiple of 10

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 8

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 count along in 4 ways: 50s









1	750g, 800g, <mark>850g,</mark> 900g, 950g	2	150cm, 200cm, 250cm, 300cm, 350cm
3	600L, 650L, 700L, 750L, 800L	4	50m, 100m, <mark>150m,</mark> 200m, 250m
5	1050s, 1100s, <mark>1150s,</mark> 1200s, 1250s	6	250km, 300km, 350km, 400km, 450km
7	350ml, 400ml, <mark>450ml, 500ml, 550ml</mark>	8	400mg, 450mg, 500mg, 550mg, 600mg
9	500mm, 550mm, 600mm, 650mm, 700mm	10	900kg, 950kg, 1000kg, 1050kg,1100kg

Question 2 - I know the Fact Families for 1 digit + 1 digit facts

- copy the Learn It
- write the Switcher
- bring the total (sum) to the front, change the symbol and write the 2 switchers



Step
1INN: Fact FamiliesI know the Fact Families for 1d +
1d facts

Remember to:

- copy the Learn It
- write the Switcher
- bring the total (sum) to the front, change the symbol and write the 2 switchers

Exemple

7 + 3 = 103 + 7 = 1010 - 3 = 710 - 7 = 3

1 8 + 1 = 9	2 7 + 1 = 8
3 4 + 2 = 6	4 2 + 5 = 7
5 2 + 1 = 3	6 6 + 3 = 9
7 4 + 5 = 9	8 7 + 2 = 9
9 3 + 2 = 5	10 5 + 3 = 8





Exemple

7 + 3 = 103 + 7 = 1010 - 3 = 710 - 7 = 3

- copy the Learn It
- write the Switcher
- bring the total (sum) to the front, change the symbol and write the 2 switchers

1	8 + 1 = 9, 1 + 8 = 9, 9 - 8 = 1, 9 - 1 = 8	2 $7+1=8, 1+7=8, 8$ -7=1, 8-1=7
3	4 + 2 = 6, 2 + 4 = 6, 6 - 4 = 2, 6 - 2 = 4	4 2+5=7,5+2=7,7 -2=5g,7-5=2
5	2 + 1 = 3, 1 + 2 = 3, 3 - 2 = 1, 3 - 1 = 2	6 + 3 = 9, 3 + 6 = 9, 9 - 6 = 3, 9 - 3 = 6
7	4 + 5 = 9, 5 + 4 = 9, 9 - 4 = 5, 9 - 5 = 4	 7+2=9,2+7=9,9 7=2s,9-2=7
9	3 + 2 = 5, 2 + 3 = 5, 5 - 3 = 2, 5 - 2 = 3	(10) $5+3=8, 3+5=8, 8$ - 5 = 3, 8 - 3 = 5





copy the Learn It write the Switcher

• bring the total (sum) to the front, change the symbol and

write the 2 switchers

Exemple

7 + 3 = 103 + 7 = 1010 - 3 = 710 - 7 = 3







Remember to:

copy the Learn It write the Switcher

 bring the total (sum) to the front, change the symbol and

write the 2 switchers

Exemple

7 + 3 = 103 + 7 = 1010 - 3 = 710 - 7 = 3

$\begin{array}{cccc} 1 & 2g + 5g = 7g, 5g + 2g = 7g, \\ 7g - 2g = 5g, 7g - 5g = 2g \\ \end{array} \qquad \begin{array}{c} 2 \\ \end{array}$

5 7s + 2s = 9s, 2s + 7s = 9s, 9s- 7s = 2s, 9s - 2s = 7s

> 4ml + 5ml = 9ml, 5ml + 4ml = 9ml, 9ml - 4m = 5ml, 9ml - 5ml = 4ml

7

9 3mm + 2mm = 5mm, 2mm + 3mm = 5mm, 5mm - 3mm = 2mm, 5mm -2mm = 3mm 7cm + 1cm = 8cm, 1cm + 7cm = 8cm, 8cm + 7cm = 1cm, 8cm - 1cm = 7cm

8m + 1m = 9m, 1m + 8m = 9m, 9m - 8m = 1m, 9m - 1m = 8m

4km + 2km = 6km, 2km + 4km = 6km, 6km - 4km = 2km, 6km - 2km = 4km

2mg + 1mg = 3mg, 1mg -	ł
2mg = 3mg, 3mg - 2mg =	-
1mg, 3mg - 1mg = 2mg	

5kg + 3kg = 8kg, 3kg + 5kg = 8kg, 8kg - 5kg = 3kg, 8kg - 3 = 5kg

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Step

Real Life Maths Questions

I know the Fact Families for 1d + 1d facts

INN: Fact Families

Remember to:

- copy the Learn It
- write the Switcher
- bring the total (sum) to the front, change the symbol and write the 2 switchers

Pim has 2 apples and his friend gives him 3 more. How many apples does Pim have? Write out the Fact Families.

2 There are 5 sweets in one jar and 3 sweets in another jar. How many sweets are there altogether? Write out the Fact Families.

Mully went to the shop and bought sweets for £7 and chocolates for £1. How much did it cost altogether? Write out the Fact Families.

Pom has 4L of water in a jug. He adds 2L more. How much liquid is in the jug? Write out the Fact Families.

5 What is the sum of 6 and 3? Write out the Fact Families.



Step

5

Real Life Maths Answers

I know the Fact Families for 1d + 1d facts

INN: Fact Families

Remember to:

- copy the Learn It
- write the Switcher
- bring the total (sum) to the front, change the symbol and write the 2 switchers

Pim has 2 apples and his friend gives him 3 more. How many apples does Pim have? Write out the Fact Families.
 Pim has 5 apples. 3 + 2 = 5, 5 - 2 = 3, 5 - 3 = 2.
 There are 5 sweets in one jar and 3 sweets in another jar. How many sweets are there altogether? Write out the Fact Families.
 There are 11 sweets altogether. 5 + 3 = 8. 8 - 5 = 3, 8 - 3 = 5.
 Mully went to the shop and bought sweets for £7 and chocolates for £1. How much did it cost altogether? Write out the Fact Families.

lt cost £8. £1 + £7 = £8, £8 - £1 = £7, £8 - £7 = £1.

Pom has 4L of water in a jug. He adds 2L more. How much liquid is in the jug? Write out the Fact Families.

There is 6L in the jug. 2L + 4L = 6L, 6L - 2L = 4L, 6L - 4L = 2L.

What is the sum of 6 and 3? Write out the Fact Families.

The answer is 9. 3 + 6 = 9. 9 - 3 = 6, 9 - 6 = 3.

Question 3 - I can double 2 digit numbers

- partition the 2d number
- double the tens
- double the units
- put them back together again



















Real Life Maths Questions

Step 3 Doubling With Pim (Without Crossing 10)

I can double 2d numbers

Remember to:

learn that, double...

- partition the 2d number
- double the tens
- double the units
- put them back together again

1	A box of sweets costs £44. How much do two boxes cost?
2	There are 32 people at a party. Each person gets 2 sandwiches. How many sandwiches are there in total?
3	Pom runs 2 laps of 24km each. How far does he run?
4	What is double 31?
5	Mully wants to buy 2 boxes of apples. Each box costs £21. How much does it cost in total?



Step 3 Doubling With Pim (Without Crossing 10)

I can double 2d numbers

Remember to:

learn that, double...

- partition the 2d number
- double the tens
- double the units
- put them back together again

	A box of sweets costs £44. How much do two boxes cost?
	They cost £88.
2	There are 32 people at a party. Each person gets 2 sandwiches. How many sandwiches are there in total?
	There are 64 sandwiches in total.
3	Pom runs 2 laps of 24km each. How far does he run?
	Pom runs 48km in total.
4	What is double 31?
	The answer is 62.
5	Mully wants to buy 2 boxes of apples. Each box costs £21. How much does it cost in total?
	It costs £42 in total.

Question 4 - I can double 2 digit multiples of 10

Remember to:

learn that double 50 is 100, 60 is 120, 70 is 140, 80 is 160, 90 is 180



















Real Life Maths Questions

(Step Doubling With Pim (With	Remember to:
		• 50 is 100
	I can double 2d multiples of 10	• 60 is 120
		• 70 is 140
		• 80 is 160
		• 90 is 180
μ	Pim has 2 boxes of pears. E	ach box contains 50 pears. How
	many pears are there in to	tal?
எ	There are 70 no only of a re-	entre Frich noncon moto 2 deimbro Hore
٤	I here are 70 people at a pa	arty. Each person gets 2 drinks. How
	many drinks are there in to	
3		0. How much do 2 gomes cost?
Γ	A computer game costs Ed	o. How much do 2 games cost?
Æ	Pim buys 2 barrels of oran	ges. Each barrel costs £60. How
	much does it cost in total?	
5	What is double 90?	





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5

Remember to:

learn that, double...

- 50 is 100
- 60 is 120
- 70 is 140
- 80 is 160
- 90 is 180

Pim has 2 boxes of pears. Each box contains 50 pears. How many pears are there in total?

There are 100 pears in total.

2 There are 70 people at a party. Each person gets 2 drinks. How many drinks are there in total?

There are 140 drinks in total.

A computer game costs £80. How much do 2 games cost?

They cost £160.

Pim buys 2 barrels of oranges. Each barrel costs £60. How much does it cost in total?

It costs £120 in total.

What is double 90?

The answer is 180.

Question 5 - I can add 10 to a 2 digit tens number

- find the number
- add one to the tens digit










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Remember to:

- find the number
- add one to the tens digit

Mully has 50 conkers. Pom has 10 conkers. How many do they have altogether?

What is the sum of 60 and 10?

Pom is 80m tall. Pim is 10m tall. How tall are they together?

Count Fourways bought toys for £70 and snacks for £10. How much did he spend?

Pim has 90g of sugar on the weighing scales. He adds 10g more. What is the weight on the scales?





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Remember to:

- find the number
- add one to the tens digit

Mully has 50 conkers. Pom has 10 conkers. How many do they have altogether?

They have 60 conkers altogether.

What is the sum of 60 and 10?

The answer is 70.

Pom is 80m tall. Pim is 10m tall. How tall are they together?

They are 90m tall together.

4 Count Fourways bought toys for £70 and snacks for £10. How much did he spend?

He spent £80.

5 Pim has 90g of sugar on the weighing scales. He adds 10g more. What is the weight on the scales?

There is 100g on the scales.





Question 6 - I can add 10 to any 2 digit number

- find the number
- add one to the tens digit













- find the number
- add one to the tens digit

1	What is the sum of 56 and 10?
2	There are 45 cherries in one jar and 10 cherries in another jar. How many cherries are there altogether?
3	Mully went to the shop and bought books for £54 and toys for £10. How much did it cost altogether?
4	Pom is 88cm tall. Pim is 10cm tall. How tall are they together?
5	Pim has 76ml of orange juice in a jug. He adds 10ml more. How much liquid is in the jug?





- find the number
- add one to the tens digit







Question 7-I can add a 1 digit number to a2 digit tens number

- say the tens number
- say the tens number with the units digit added on











Real Life Maths Questions



Remember to:

- say the tens number
- say the tens number with the units digit added on

¹ Mully has 30 books. Pim gives him 5 more books. How many books does Mully have?

What is 40 add 3?

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Pom ran 70km. He had a rest. He ran another 6km. How far did he go in total?

There are 50 people at a barbecue. 9 more people arrive. How many people are at the barbecue?

Speedy Col has 70L of apple juice in a jug. She adds 2L more. How much liquid is in the jug?



Real Life Maths Answers



Remember to:

- say the tens number
- say the tens number with the units digit added on

1 Mully has 30 books. Pim gives him 5 more books. How many books does Mully have? Mully has 35 books. **2**] What is 40 add 3? The answer is 43. **3** Pom ran 70km. He had a rest. He ran another 6km. How far did he go in total? Pom ran 76km. 4 There are 50 people at a barbecue. 9 more people arrive. How many people are at the barbecue? There are 59 people at the barbecue. 5 J Speedy Col has 70L of apple juice in a jug. She adds 2L more. How much liquid is in the jug? There is 72L of apple juice in the jug.





Question 8 - I can take 10 from a multiple of 10

- find the starting number
- count back 10
- see where you have landed















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Remember to:

- find the starting number
- count back to 10
- see where you have landed

Pim poured 30ml of water out of his jug. He started with 90ml. How much liquid is in the jug?

There is 60ml of liquid in the jug.

Pim has 20L of water in a jug. He poured out 10L. How much liquid is in the jug?

There is 10L of water in the jug.

³ Pom is 80cm tall. Pim is 10cm tall. How much taller is Pom?

Pom is 70cm taller.

⁴ Pim went to the shop with £60. He bought shoes for £10. How much money does he have left?

He has £50 left.

What is 40 take away 10?

The answer is 30.





Question 9 - I can take 10 from a 2 digit number

- find the starting number
- count back 10
- see where you have landed














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Remember to:

- find the starting number
- count back to 10
- see where you have landed

Pom has 78 eggs. He gave his friend 10 eggs. How many eggs does Pom have now?

Pom has 68 eggs.

There are 87 sweets in a jar. Pim took 10 sweets out. How many sweets are there now?

There are 77 sweets in the jar.

³ Pim put 65g of cherries on the weighing scales. He took away 10g. What is the weight on the scales?

There is 55g of cherries on the scales.

Pom is 43cm tall. Pim is 10cm tall. How much taller is Pom?

Pom is 33cm taller.

⁵ Pim had to run 45km. So far he has run 10km. What is the total distance he has to go?

He still has to go 35km.





Question Practice Resources

Question 10 - I can take a multiple of 10 from a multiple of 10

Remember to:

- find the starting number
- count back 10
- see where you have landed











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Real Life Maths Questions



Remember to:

- find the starting number
- count back to 10
- see where you have landed

Pim has 60 sweets. He gives Pom 20 of his sweets. How many sweets does Pim have left? 2 There are 30 plums in a jar. Pim took 20 plums out. How many plums are there now? 3 J Pim went to the shop with £60. He bought books for £40. How much money does he have left?

4 Pim poured 50L of water out of his barrel. He started with 80L. How much liquid is in the barrel?

What is 90 take away 80?





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Remember to:

- find the starting number
- count back to 10
- see where you have landed

Pim has 60 sweets. He gives Pom 20 of his sweets. How many sweets does Pim have left? Pim has 40 sweets left. 2 There are 30 plums in a jar. Pim took 20 plums out. How many plums are there now? There are 10 plums in the jar.

3 J Pim went to the shop with £60. He bought books for £40. How much money does he have left?

He has £20 left.

4 Pim poured 50L of water out of his barrel. He started with 80L. How much liquid is in the barrel?

There is 30L of liquid in the barrel.

What is 90 take away 80?

The answer is 10.



