Big Maths
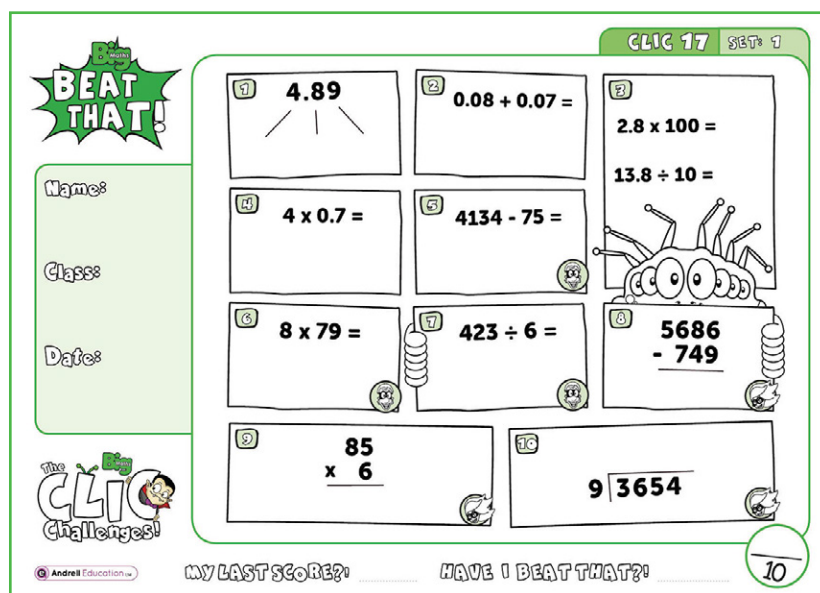
A Guide for Home Learning

CLIC 17

Introduction - CLIC 17

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 2 decimal place number

Question 2

I can add hundredths

Question 3

I can multiply decimals by 100

Question 4

 I can do Smile Multiplication for tenths

Question 5

I can solve 4 digit - 2 digit

Question 6

I can solve any 1 digit x 2 digit

Question 7

I can use a Smile Multiplication fact to find a division fact
(with remainders)

Question 8

I can solve any 4 digit - 2 digit or 3 digit

Question 9

I can solve any 2 digit x 1 digit

Question 10

I can solve a 4 digit ÷ 1 digit (using any table) with no remainders in
the 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 17

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.

BEAT THAT!

Name:

Class:

Date:

The Big Maths CLIC Challenges!

1 4.89

2 0.08 + 0.07 =

3 2.8 x 100 =

13.8 ÷ 10 =

4 4 x 0.7 =

5 4134 - 75 =

6 8 x 79 =

7 423 ÷ 6 =

8 5686
  - 749

9 85
  x   6

10 9) 3654

Big Maths BEAT THAT!

Name:

Class:

Date:

The Big Maths CLIC Challenges!

1 4.89

4   0.8   0.09

2 0.08 + 0.07 =

0.15
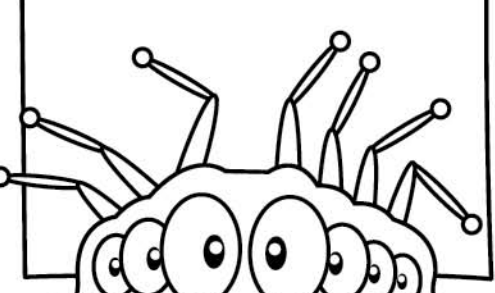
3 2.8 x 100 = **280**

13.8 ÷ 10 = **1.38**

4 4 x 0.7 =

2.8

5 4134 - 75 =

4059
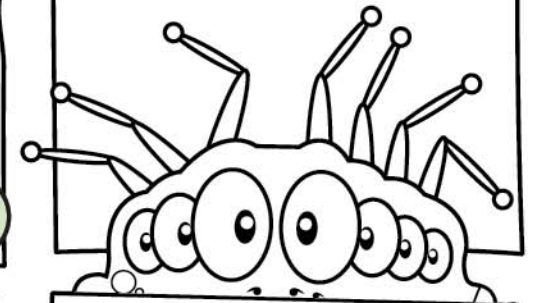
6 8 x 79 =

632

7 423 ÷ 6 =

70 r 3

8
5686
- 749

4937

9
85
x   6

510

10
406
9 ⟌ 3654

MY LAST SCORE?! ....

HAVE I BEAT THAT?! ....

10

Question Practice Resources

Question 1   -   I can partition a 2 decimal place number

Remember to:

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

Step 4

Place Value

I can partition a 2dp number

Remember to:
- write the number
- draw the sticks
- copy the units digit
- copy the tenths digit... with 'zero-point' in front of it
- copy the hundredths digit... with 'zero-point-zero' in front of it

Example

6 · 1 7

6   0.1   0.07

6.17

6   0.1   0.07
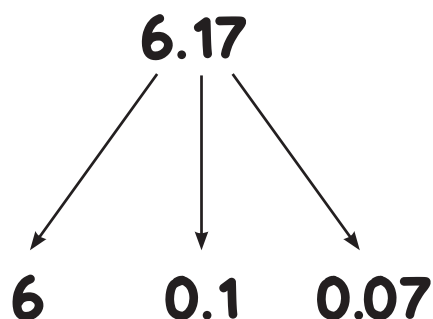
1	**Partition 5.63**	2	**Partition 1.73**
3	**Partition 6.26**	4	**Partition 9.65**
5	**Partition 4.63**	6	**Partition 2.27**
7	**Partition 7.32**	8	**Partition 5.92**
9	**Partition 8.58**	10	**Partition 3.42**

Step 4

Place Value
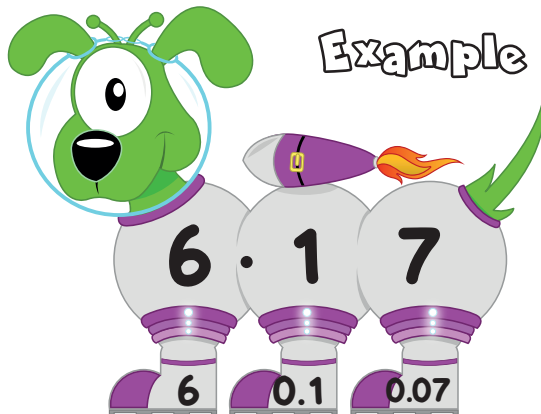
I can partition a 2dp number

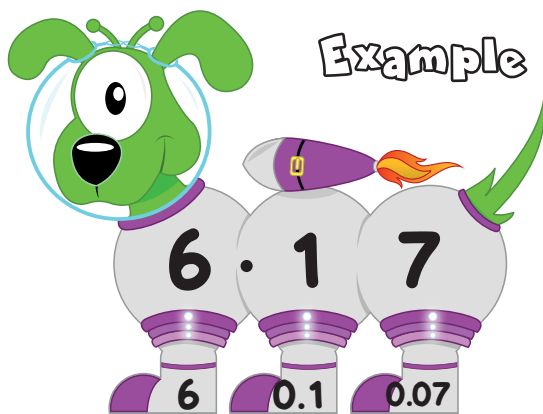**Remember to:**
- write the number
- draw the sticks
- copy the units digit
- copy the tenths digit... with 'zero-point' in front of it
- copy the hundredths digit... with 'zero-point-zero' in front of it

Example

6 · 1 7

6   0.1   0.07

6.17

6   0.1   0.07
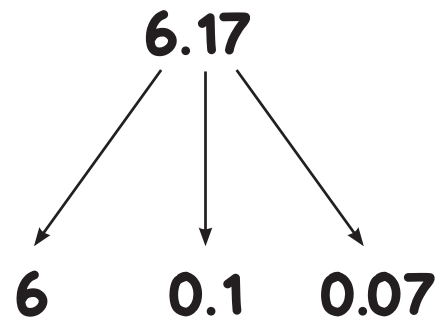
1	5, 0.6, 0.03	2	1, 0.7, 0.03
3	6, 0.2, 0.06	4	9, 0.6, 0.05
5	4, 0.6, 0.03	6	2, 0.2, 0.07
7	7, 0.3, 0.02	8	5, 0.9, 0.02
9	8, 0.5, 0.08	10	3, 0.4, 0.02

Question Practice Resources

Question 2   -   I can add hundredths

Remember to:
- use your addition Learn Its
- swap 'the thing' to a hundredth

Big Maths **Repeat** Questions

I can add hundredths

Remember To:
- use your addition Learn Its
- swap 'the thing' to a hundredth

1 $0.04 + 0.04 =$

2 $0.05 + 0.03 =$

3 $0.07 + 0.02 =$

4 $0.06 + 0.03 =$

5 $0.02 + 0.02 =$

6 $0.01 + 0.06 =$

7 $0.04 + 0.02 =$

8 $0.04 + 0.03 =$

9 $0.08 + 0.01 =$

10 $0.03 + 0.03 =$

Step 5

INN: Addition and Subtraction

I can add hundredths

1 0.04 + 0.04 = **0.08**

2 0.05 + 0.03 = **0.08**

3 0.07 + 0.02 = **0.09**

4 0.06 + 0.03 = **0.09**

5 0.02 + 0.02 = **0.04**

6 0.01 + 0.06 = **0.07**

7 0.04 + 0.02 = **0.06**

8 0.04 + 0.03 = **0.07**

9 0.08 + 0.01 = **0.09**

10 0.03 + 0.03 = **0.06**

Big Maths **Revisit** Questions

INN: Addition and Subtraction

I can add hundredths

Remember To:

- use your addition Learn Its
- swap 'the thing' to a hundredth
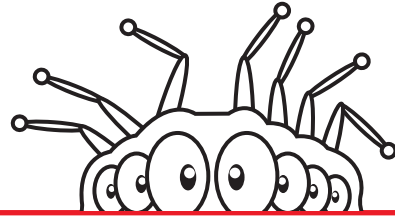
1 0.04m + 0.04m =

2 0.05cm + 0.03cm =

3 0.07km + 0.02km =

4 0.06g + 0.03g =

5 0.02mg + 0.02mg =

6 0.01L + 0.06L =

7 0.04ml + 0.02ml =

8 0.04s + 0.03s =

9 0.08mm + 0.01mm =

10 0.03kg + 0.03kg =

Remember To:

- use your addition Learn Its
- swap 'the thing' to a hundredth
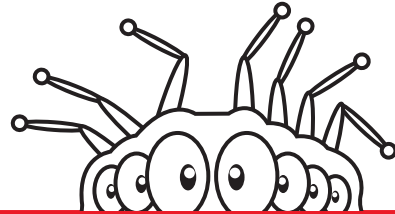
1 0.04m + 0.04m = **0.08m**

2 0.05cm + 0.03cm = **0.08cm**

3 0.07km + 0.02km = **0.09km**

4 0.06g + 0.03g = **0.09g**

5 0.02mg + 0.02mg = **0.04mg**

6 0.01L + 0.06L = **0.07L**

7 0.04ml + 0.02ml = **0.06ml**

8 0.04s + 0.03s = **0.07s**

9 0.08mm + 0.01mm = **0.09mm**
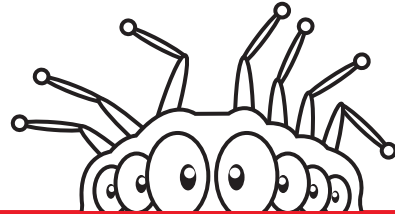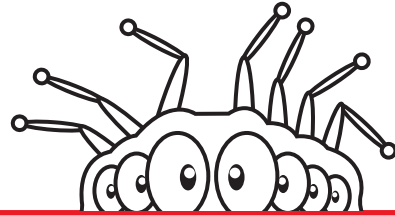
10 0.03kg + 0.03kg = **0.06kg**

Step 5

INN: Addition and Subtraction

I can add hundredths

Remember to:
- use your Addition Learn Its
- swap 'the thing' to a hundredths

1 What is the sum of 0.06 and 0.03?

2 Mully walked 0.08km. He had a rest. He walked another 0.07km. How far did he go in total?

3 Speedy Col has 0.03L of milk in a cup. She adds 0.08L more. How much milk is in the cup?

4 Pim bought sweets for £0.03 and a chocolate bar for £0.09. How much did he spend?

5 Pom made a pile of 0.06kg of salt. He put 0.03kg more salt in the pile. How much salt is in the pile now?

Real Life Maths Answers

Remember to:
- use your Addition Learn Its
- swap 'the thing' to a hundredths

1 What is the sum of 0.06 and 0.03?

The answer is 0.09.

2 Mully walked 0.08km. He had a rest. He walked another 0.07km. How far did he go in total?

He walked 0.15km in total.

3 Speedy Col has 0.03L of milk in a cup. She adds 0.08L more. How much milk is in the cup?

There is 0.11L in the cup.

4 Pim bought sweets for £0.03 and a chocolate bar for £0.09. How much did he spend?

He spent £0.12.

5 Pom made a pile of 0.06kg of salt. He put 0.03kg more salt in the pile. How much salt is in the pile now?

There is 0.09kg of salt in the pile.

Question Practice Resources

Question 3   -   I can multiply decimals by 100

Remember to:
- move the digits two places to the left
- remember that this makes the number 100 times bigger

Revisit Questions

Step 4 | **Multiplying by 10**

I can multiply decimals by 100

Remember To:

- move the digits two places to the left
- remember that this makes the number 100 times bigger

1 0.9m x 100 =

2 8.9cm x 100 =

3 4.3km x 100 =

4 1.7g x 100 =

5 8.5mg x 100 =

6 3.7L x 100 =

7 4.8ml x 100 =

8 0.3s x 100 =

9 6.5mm x 100 =

10 5.1kg x 100 =

Step 4 | **Multiplying by 10**

I can multiply decimals by 100

Remember To:

- move the digits two places to the left
- remember that this makes the number 100 times bigger

1 0.9m x 100 = **90m**

2 8.9cm x 100 = **890cm**

3 4.3km x 100 = **430km**

4 1.7g x 100 = **170g**

5 8.5mg x 100 = **850mg**

6 3.7L x 100 = **370L**

7 4.8ml x 100 = **480ml**

8 0.3s x 100 = **30s**

9 6.5mm x 100 = **650mm**

10 5.1kg x 100 = **510kg**

![Big Maths logo]

Repeat Questions

Remember To:

- move the digits two places to the left
- remember that this makes the number 100 times bigger

1 0.9 x 100 =

2 8.9 x 100 =

3 4.3 x 100 =

4 1.7 x 100 =

5 8.5 x 100 =

6 3.7 x 100 =

7 4.8 x 100 =

8 0.3 x 100 =

9 6.5 x 100 =

10 5.1 x 100 =

Repeat Answers

Step 4 — **Multiplying by 10**

I can multiply decimals by 100

Remember To:
- move the digits two places to the left
- remember that this makes the number 100 times bigger

1 0.9 x 100 = **90**

2 8.9 x 100 = **890**

3 4.3 x 100 = **430**

4 1.7 x 100 = **170**

5 8.5 x 100 = **850**

6 3.7 x 100 = **370**

7 4.8 x 100 = **480**

8 0.3 x 100 = **30**

9 6.5 x 100 = **650**

10 5.1 x 100 = **510**

Real Life Maths Questions

Step 4

Multiplying by 10

I can multiply decimals by 100

Remember to:
- move the digits two places to the left
- remember that this makes the number 100 times bigger

1 Pim has 100 boxes. Each box has 7.5kg of pears. How many kilograms of pears are there in total?

2 There are 100 people at a party. Each person gets 1.2L of Coca Cola. How much Coca Cola is there in total?

3 A bag of apples costs £2.80. Pim buys 100 bags. How much does that cost?

4 Pim ran 100 laps of 2.4km. How far did he run in total?

5 What is 6.9 multiplied by 100?

Step 4 — **Multiplying by 10**

I can multiply decimals by 100

Remember to:
- move the digits two places to the left
- remember that this makes the number 100 times bigger

1 Pim has 100 boxes. Each box has 7.5kg of pears. How many kilograms of pears are there in total?

There are 750kg of pears in total.

2 There are 100 people at a party. Each person gets 1.2L of Coca Cola. How much Coca Cola is there in total?

There is 120L of Coca Cola.

3 A bag of apples costs £2.80. Pim buys 100 bags. How much does that cost?

It costs £280.

4 Pim ran 100 laps of 2.4km. How far did he run in total?

He ran 240km in total.

5 What is 6.9 multiplied by 100?

The answer is 690.

Question Practice Resources

Question 4   -   I can do Smile Multiplication for tenths

Big Maths

Repeat Questions

I can do Smile Multiplication for tenths

Remember to:
- remember that you are swapping units for tenths
- do the tables bit
- think of your total as an amount of tenths (understanding)
- write the 2 digit tables answer with a decimal point in the middle (doing)

3×0.7

3×7

21

$= 2.1$

1. $3 \times 0.5 =$

2. $6 \times 0.3 =$

3. $8 \times 0.2 =$

4. $9 \times 0.7 =$

5. $5 \times 0.1 =$

6. $2 \times 0.6 =$

7. $7 \times 0.9 =$

8. $4 \times 0.8 =$

9. $1 \times 0.4 =$

10. $3 \times 0.3 =$

Step 4

INN: Multiplication

I can do Smile Multiplication for tenths

3×0.7

3×7

21

$= 2.1$

Remember to:
- remember that you are swapping units for tenths
- do the tables bit
- think of your total as an amount of tenths (understanding)
- write the 2 digit tables answer with a decimal point in the middle (doing)

1. $3 \times 0.5 = $ **1.5**

2. $6 \times 0.3 = $ **1.8**

3. $8 \times 0.2 = $ **1.6**

4. $9 \times 0.7 = $ **6.3**

5. $5 \times 0.1 = $ **0.5**

6. $2 \times 0.6 = $ **1.2**

7. $7 \times 0.9 = $ **6.3**

8. $4 \times 0.8 = $ **3.2**

9. $1 \times 0.4 = $ **0.4**

10. $3 \times 0.3 = $ **0.9**

Step 4	INN: Multiplication

I can do Smile Multiplication for tenths

Example

$$3 \times 0.7$$

$$3 \times 7$$

$$21$$

$$= 2.1$$

Remember to:

- remember that you are swapping units for tenths
- do the tables bit
- think of your total as an amount of tenths (understanding)
- write the 2 digit tables answer with a decimal point in the middle (doing)

1. 2m x 0.5 =

2. 4cm x 0.3 =

3. 9km x 0.2 =

4. 7g x 0.7 =

5. 9mg x 0.1 =

6. 2L x 0.6 =

7. 7ml x 0.9 =

8. 4s x 0.8 =

9. 1mm x 0.4 =

10. 3kg x 0.3 =

Step 4 | **INN: Multiplication**

I can do Smile Multiplication for tenths

Remember to:
- remember that you are swapping units for tenths
- do the tables bit
- think of your total as an amount of tenths (understanding)
- write the 2 digit tables answer with a decimal point in the middle (doing)

Example

$$3 \times 0.7$$

$$3 \times 7$$

$$21$$

$$= 2.1$$

1 2m x 0.5 = **1m**

2 4cm x 0.3 = **1.2cm**

3 9km x 0.2 = **1.8km**

4 7g x 0.7 = **4.9g**

5 9mg x 0.1 = **0.9mg**

6 2L x 0.6 = **1.2L**

7 7ml x 0.9 = **6.3ml**

8 4s x 0.8 = **3.2s**

9 1mm x 0.4 = **0.4mm**

10 3kg x 0.3 = **0.9kg**

Real Life Maths Questions

Remember to:

- remember that you are swapping (ones) units for tenths
- do the tables bit
- think of your total as an amount of tenths (understanding)
- write the 2 digit tables answer with a decimal point in the middle (doing)

1 Pim has 3 boxes. Each box has 0.6kg of cherries. How many kilograms of cherries are there in total?

2 There are 5 people at a party. Each person gets 0.8L of juice. How much juice is there in total?

3 Pim ran 8 laps of 0.9km. How far did he run in total?

4 A bag of apples weighs 0.3kg. There are 7 bags. What is the total weight?

5 Pim buys 9 bottles of water. Each bottle costs £0.50. How much does it cost in total?

Step 4

INN: Multiplication

I can do Smile Multiplication for tenths

Remember to:

- remember that you are swapping (ones) units for tenths
- do the tables bit
- think of your total as an amount of tenths (understanding)
- write the 2 digit tables answer with a decimal point in the middle (doing)

1 Pim has 3 boxes. Each box has 0.6kg of cherries. How many kilograms of cherries are there in total?

There is 1.8kg of cherries.

2 There are 5 people at a party. Each person gets 0.8L of juice. How much juice is there in total?

There is 4.0L of juice in total.

3 Pim ran 8 laps of 0.9km. How far did he run in total?

He ran 7.2km.

4 A bag of apples weighs 0.3kg. There are 7 bags. What is the total weight?

The total weight is 2.1kg.

5 Pim buys 9 bottles of water. Each bottle costs £0.50. How much does it cost in total?

It costs £4.50 in total.

Question Practice Resources

Question 5   -   I can solve 4 digit - 2 digit

Remember to:

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

Big Maths **Repeat** Questions

Remember To:

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

1 8353 - 94 =

2 1576 - 22 =

3 1350 - 35 =

4 5009 - 51 =

5 5906 - 10 =

6 4289 - 16 =

7 9160 - 60 =

8 3979 - 98 =

9 9757 - 33 =

10 7674 - 49 =

Repeat Answers

Step 31

Subtraction

I can solve 4d - 2d

Remember To:

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

1 8353 - 94 = **8259**

2 1576 - 22 = **1554**

3 1350 - 35 = **1315**

4 5009 - 51 = **4958**

5 5906 - 10 = **5896**

6 4289 - 16 = **4273**

7 9160 - 60 = **9100**

8 3979 - 98 = **3881**

9 9757 - 33 = **9724**

10 7674 - 49 = **7625**

Big Maths

Revisit Questions

Remember To:

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

1   **8353m - 94m =**

2   **4576cm - 22cm =**

3   **8776km - 35km =**

4   **8978g - 51g =**

5   **5906mg - 10mg =**

6   **4289L - 16L =**

7   **9160ml - 60ml =**

8   **3979s - 98s =**

9   **9757mm - 33mm =**

10   **7674kg - 49kg =**

Step 31 | **Subtraction**

I can solve 4d - 2d

1 8353m - 94m = **8300m**

2 4576cm - 22cm = **4554cm**

3 8776km - 35km = **8741km**

4 8978g - 51g = **8927g**

5 5906mg - 10mg = **5896mg**

6 4289L - 16L = **4273L**

7 9160ml - 60ml = **9100ml**

8 3979s - 98s = **3881s**

9 9757mm - 33mm = **9724mm**

10 7674kg - 49kg = **7625kg**

Big Maths

Real Life Maths Questions

Remember to:

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

1 Pom has 8974 rocks. He gives Mully 61 of his rocks. How many rocks does Pom have left?

2 Pim went to the shop with £5333. He bought groceries for £86. How much money does he have left?

3 Pim took away 65g of wood from the weighing scales. He started with 2921g. What is the weight on the scales?

4 Pim poured 41ml of water out of his jug. He started with 6767ml. How much liquid is in the jug?

5 What is the difference between 5062 and 88?

Step 31

Subtraction

I can solve 4d - 2d

Remember to:

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

1 **Pom has 8974 rocks. He gives Mully 61 of his rocks. How many rocks does Pom have left?**

Pom has 8913 rocks left.

2 **Pim went to the shop with £5333. He bought groceries for £86. How much money does he have left?**

He has £5247 left.

3 **Pim took away 65g of wood from the weighing scales. He started with 2921g. What is the weight on the scales?**

There is 2856g on the scales.

4 **Pim poured 41ml of water out of his jug. He started with 6767ml. How much liquid is in the jug?**

There is 6726ml in the jug.

5 **What is the difference between 5062 and 88?**

The difference is 4974.

Select Questions

Step 31

Subtraction

I can solve 4d - 2d

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

1

Which is the odd one out?

1.25kg - 80g   **117g x 10**

Double 575g

2

A B C

Boxes A, B and C hold different numbers of pencils. There are 480 pencils in a full box. Box A is three quarters full. Box B has four fifths of the number of pencils in Box A. Box C has just five pencils missing. How many pencils altogether? Sixty five pencils are removed. How many pencils are left in the boxes?

3

Blue represents 90 and green represents 700. Yellow represents one fifth of green. What does red represent?

90	?	?
700		

4

Connor wants to buy some cup cakes for a birthday party! Twelve cup cakes would cost £4.20. He wants thirty six cup cakes. When he checks how much money he has he finds that he is 75p short of what he needs! How much money does he have?

5
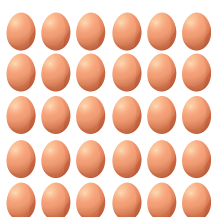
The average weight of a large egg is 70g. One egg is removed because it is broken. How much do you think the remaining eggs on these trays are likely to weigh?

Big Maths

Select Answers

Step 31 | Subtraction

I can solve 4d - 2d

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

1

1.25kg - 80g   117g x 10

Double 575g

2

Box A has 360 pencils, Box B has 288 pencils and Box C has 475 pencils. Altogether there are 1123 pencils. If 65 pencils are removed there would be 1058 pencils left in the box.

3

The red rectangle represents 1075.

4

He has £11.85

5

The remaining eggs on this tray are likely to weigh 2030g.

Question Practice Resources

Question 6   -   I can solve any 1 digit x 2 digit

Remember to:

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

Step 14 — Multiplication

I can solve any 1d x 2d

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

1 8 x 93 =

2 6 x 53 =

3 2 x 38 =

4 1 x 25 =

5 2 x 31 =

6 5 x 80 =

7 5 x 10 =

8 7 x 63 =

9 3 x 90 =

10 5 x 96 =

Repeat Answers

Step 14

Multiplication

I can solve any 1d x 2d

Remember To:

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

1   8 x 93 = **744**

2   6 x 53 = **318**

3   2 x 38 = **76**

4   1 x 25 = **25**

5   2 x 31 = **62**

6   5 x 80 = **400**

7   5 x 10 = **50**

8   7 x 63 = **441**

9   3 x 90 = **270**

10   5 x 96 = **480**

Step 14 **Multiplication**

I can solve any 1d x 2d

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

1 8m x 77 =

2 7cm x 43 =

3 6 x 48km =

4 4 x 35g =

5 6mg x 41 =

6 6L x 70 =

7 5 x 10ml =

8 7 x 63s =

9 3mm x 90 =

10 5kg x 96 =

Big Maths

Revisit Answers

Remember To:

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

1 8m x 77 = **616m**

2 7cm x 43 = **301cm**

3 6 x 48km = **288km**

4 4 x 35g = **140g**

5 6mg x 41 = **246mg**

6 6L x 70 = **420L**

7 5 x 10ml = **50ml**

8 7 x 63s = **441s**

9 3mm x 90 = **270mm**

10 5kg x 96 = **480kg**

Big Maths

Real Life Maths Questions

Remember to:

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

1   Pim has 7 boxes. Each box has 56 sweets. How many sweets are there in total?

2   There are 7 people playing a game. Each person gets 79 tokens. How many tokens are there in total?

3   A box of cherries costs £6. I want to buy 43 boxes. How much does that cost?

4   A box of apples weighs 8kg. There are 95 boxes. What is the total weight?

5   What is 7 times 67?

Real Life Maths Answers

Step 14 — Multiplication

I can solve any 1d x 2d

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

1 Pim has 7 boxes. Each box has 56 sweets. How many sweets are there in total?

There are 392 sweets in total.

2 There are 7 people playing a game. Each person gets 79 tokens. How many tokens are there in total?

There are 553 tokens in total.

3 A box of cherries costs £6. I want to buy 43 boxes. How much does that cost?

It costs £258.

4 A box of apples weighs 8kg. There are 95 boxes. What is the total weight?

The total weight is 760kg.

5 What is 7 times 67?

The answer is 469.

Step 14 Multiplication

I can solve any 1d x 2d

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

1 Jamie's favourite chocolate bars normally cost 48p each. A local shop has a special offer on these chocolate bars. If you buy two chocolate bars then a third one is free! If Jamie has £3 to spend, then what is the largest number of chocolate bars he can buy?
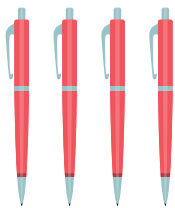
2 A pack of four pens costs 78p. In one year 4 class, there are twenty eight children. The class teacher wants to give every child in their class one pen each. What will be the total cost?

3 Michael spends 96p each day on bus fare. In one week, he uses the bus every day. Alternatively, he could buy a weekly bus pass for £6. How much would Michael save if he buys a bus pass for the week?

4 A regular heptagon and a square have the same perimeter.
If each side of the regular heptagon measures 36mm, then what is the length of the side of the square?

5 Martha and Paul decide to bake some cup cakes and then sell them as their class is trying to raise money for a local charity. They sell the cakes at 25p each. They also charge 15p for a homemade bag to hold the cakes. How much would I pay for nine cup cakes?

Big Maths

Select Answers

Remember To:

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

1

Jamie can buy 6 chocolate bars. This means he would get 3 chocolate bars free, so therefore he would have 9 chocolate bars.

2

The total cost would be £5.46

3

Michael would spend £6.72 on his bus fares. If he had the weekly pass he would save 72 pence.

4

The side of the square has a length of 63mm.

5

I would pay £3.60 for nine cup cakes.

Question Practice Resources

Question 7   -   I can use a Smile Multiplication fact to find a division fact (with remainders)

![Big Maths logo] **Repeat** Questions

Remember To:

- use your Learn Its, Smile Multiplication and Fact Families to find the highest multiple
- find the remainder

1 152 ÷ 5 =

2 484 ÷ 6 =

3 365 ÷ 6 =

4 493 ÷ 7 =

5 647 ÷ 8 =

6 271 ÷ 3 =

7 243 ÷ 4 =

8 725 ÷ 9 =

9 481 ÷ 2 =

10 552 ÷ 5 =

Big Maths

Repeat Answers

Remember To:

- use your Learn Its, Smile Multiplication and Fact Families to find the highest multiple
- find the remainder

1 152 ÷ 5 = **30 r2**

2 484 ÷ 6 = **80 r4**

3 365 ÷ 6 = **60 r5**

4 493 ÷ 7 = **70 r3**

5 647 ÷ 8 = **80 r7**

6 271 ÷ 3 = **90 r1**

7 243 ÷ 4 = **60 r3**

8 725 ÷ 9 = **80 r5**

9 481 ÷ 2 = **240 r1**

10 552 ÷ 5 = **110 r2**

Step 25 — **Division**

I can use a Smile Multiplication fact to find a division fact (with remainders)

Remember To:

- use your Learn Its, Smile Multiplication and Fact Families to find the highest multiple
- find the remainder

1 $153m \div 5 =$

2 $485cm \div 6 =$

3 $364km \div 6 =$

4 $495g \div 7 =$

5 $647mg \div 8 =$

6 $271L \div 3 =$

7 $243ml \div 4 =$

8 $725s \div 9 =$

9 $481mm \div 8 =$

10 $452kg \div 5 =$

Step 25 — **Division**

I can use a Smile Multiplication fact to find a division fact (with remainders)

Remember To:

- use your Learn Its, Smile Multiplication and Fact Families to find the highest multiple
- find the remainder

1 $153m \div 5 = $ **30m r3m**

2 $485cm \div 6 = $ **80cm r5cm**

3 $364km \div 6 = $ **60km r4km**

4 $495g \div 7 = $ **70g r5g**

5 $647mg \div 8 = $ **80mg r7mg**

6 $271L \div 3 = $ **90L r1L**

7 $243ml \div 4 = $ **60ml r3ml**

8 $725s \div 9 = $ **80s r5s**

9 $481mm \div 8 = $ **60mm r1mm**

10 $452kg \div 5 = $ **90kg r2kg**

Real Life Maths Questions

Step 25 | **Division**

I can use a Smile Multiplication fact to find a division fact (with remainders)

Remember to:
- use your 'Learn Its', Smile Multiplication and Fact Families to find the highest multiple
- find the remainder

1 Pim has 724 oranges. He shared them between 9 people. How many oranges does each person get? How many oranges are left?

2 Pom has 496 apples. He puts them into 7 boxes. How many apples are in each box? How many apples are left over?

3 A bag of sweets costs £8. Pim has £563. How many bags of sweets can he buy? How much money is left over?

4 Mully has a barrel containing 242L of water. He pours it into 6 buckets. How much water is in each bucket? How much water is left over?

5 What is 725 shared by 8? What is the remainder?

Step 25 | **Division**

I can use a Smile Multiplication fact to find a division fact (with remainders)

Remember to:
- use your 'Learn Its', Smile Multiplication and Fact Families to find the highest multiple
- find the remainder

1 Pim has 724 oranges. He shared them between 9 people. How many oranges does each person get? How many oranges are left?

Each person gets 80 oranges. There are 4 oranges left over.

2 Pom has 496 apples. He puts them into 7 boxes. How many apples are in each box? How many apples are left over?

Each box contains 70 apples. There are 6 apples left over.

3 A bag of sweets costs £8. Pim has £563. How many bags of sweets can he buy? How much money is left over?

He can buy 70 bags of sweets. There is £3 left over.

4 Mully has a barrel containing 242L of water. He pours it into 6 buckets. How much water is in each bucket? How much water is left over?

There is 40L of water in each bucket. There is 2L left over.

5 What is 725 shared by 8? What is the remainder?

The answer is 90. The remainder is 5.

Select Questions

I can use a Smile Multiplication fact to find a division fact (with remainders)

Remember To:

- use your Learn Its, Smile Multiplication and Fact Families to find the highest multiple
- find the remainder

1 Starting with a length of rope 4.25m long, Mark first cuts four lengths of rope each 60cm long. With the remaining length of rope, he wants to cut it into lengths of 40cm each. How many 40cm lengths can he make? Will he have any rope left over?

2 At a school fayre, cup cakes are sold for 30p each. The cakes can also be bought in a special presentation box which costs an additional 15p. Sophie pays £2.55 for box of cup cakes. How many cup cakes are in the box?

3 Pupils are asked to design and make a pattern combining different mathematical shapes. Olivia and Abi decide to make a regular heptagon from a piece of ribbon 285cm long. They agree that the length of the sides should be a multiple of ten. How long are the sides of the largest regular heptagon that they can make?

4 A medium apple weighs about 80g. The total weight of a bag of apples is slightly less than half a kilogram. How many apples are likely to be in the bag?

5 When Alesha checks the coins in her pocket, she says that for the next week she has about 70p a day spending money. Do you agree?

Step 25

Division

I can use a Smile Multiplication fact to find a division fact (with remainders)

Remember To:
- use your Learn Its, Smile Multiplication and Fact Families to find the highest multiple
- find the remainder

1

He can make four 40cm pieces of rope. He would have just under 0.1m of rope left.

2

There are 8 cup cakes in the box.

3

The length of the sodes would be 40cm.

4

6 apples

5

No, I disagree. She would have around 80p spending money a day.

Question Practice Resources

Question 8   -   I can solve any 4 digit - 2 digit or 3 digit

Big Maths

Repeat Questions

Step 6

Subtraction Column Methods

I can solve any 4d - 2d or 3d

Example

$$
\begin{array}{r}
{}^{4}\cancel{5}{}^{1}6\cancel{8}{}^{7}\cancel{6}{}^{1} \\
-749 \\
\hline
4937
\end{array}
$$

1   6436 - 312

2   6295 - 898

3   8321 - 754

4   6232 - 159

5   1233 - 15

6   1719 - 290

7   5342 - 80

8   1264 - 90

9   8866 - 54

10   1152 - 14

Repeat Answers

Step 6	Subtraction Column Methods

I can solve any 4d - 2d or 3d

Example

```
  4 1 7 1
  5 6 8 6
-   7 4 9
---------
  4 9 3 7
```

1   **6436 - 312 = 6124**

2   **6295 - 898 = 5397**

3   **8321 - 754 = 7567**

4   **6232 - 159 = 6073**

5   **1233 - 15 = 1218**

6   **1719 - 290 = 1429**

7   **5342 - 80 = 5262**

8   **1264 - 90 = 1174**

9   **8866 - 54 = 8812**

10   **1152 - 14 = 1138**

Question Practice Resources

Question 9 - I can solve any 2 digit x 1 digit (Using Column Method)

Step 2 | **Multiplication Column Methods**

I can solve any 2d x 1d

Example

$$
\begin{array}{r}
8\overset{3}{5} \\
\times\ \ 6 \\
\hline
510 \\
\end{array}
$$

1 44 x 6

2 76 x 3

3 99 x 5

4 24 x 7

5 90 x 9

6 55 x 5

7 17 x 7

8 19 x 9

9 89 x 4

10 67 x 4

Big Maths

Repeat Answers

Multiplication Column Methods

I can solve any 2d x 1d

Example

$$\overset{3}{8}5$$
$$\times\ \ \ 6$$
$$\overline{510}$$

1 44 x 6 = **264**

2 76 x 3 = **228**

3 99 x 5 = **495**

4 24 x 7 = **168**

5 90 x 9 = **810**

6 55 x 5 = **275**

7 17 x 7 = **119**

8 19 x 9 = **171**

9 89 x 4 = **356**

10 67 x 4 = **268**

Set 1

Question Practice Resources

Question 10 -   I can solve a 4 digit ÷ 1 digit (using any table) with no remainders

Big Maths **Repeat** Questions

I can solve a 4d ÷ 1d (using any table) No remainders inside the answer

Example

$$\begin{array}{r} 406 \\ 9\overline{)3654} \end{array}$$

1 3555 ÷ 5

2 9900 ÷ 9

3 8016 ÷ 8

4 7147 ÷ 7

5 5094 ÷ 9

6 6114 ÷ 6

7 7399 ÷ 7

8 8776 ÷ 8

9 6294 ÷ 6

10 5340 ÷ 5

Big Maths Repeat Answers

Division Column Methods

I can solve a 4d ÷ 1d (using any table) No remainders inside the answer

Example

$$9 \overline{\smash{\big)}\, 3654} \quad 406$$

1 3555 ÷ 5 = **711**

2 9900 ÷ 9 = **1100**

3 8016 ÷ 8 = **1002**

4 7147 ÷ 7 = **1021**

5 5094 ÷ 9 = **566**

6 6114 ÷ 6 = **1019**

7 7399 ÷ 7 = **1057**

8 8776 ÷ 8 = **1097**

9 6294 ÷ 6 = **1049**

10 5340 ÷ 5 = **1068**