



A Guide for Home Learning

CLIC 12

# Introduction - CLIC 12

In school, each week, children complete a **CLIC** challenge. The answers that they provide tell their teacher what skills 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.

**CLIC 12 SET 1**

**BEAT THAT!**

Names: \_\_\_\_\_

Class: \_\_\_\_\_

Date: \_\_\_\_\_

**1** 4.6

**2** Place in order  
311 131 331

**3** Double  
437 is

**4** Write the fact family for  
 $4 \times 30 = 120$   
.....  
.....

**5**  $431 + 325 =$

**6**  $3 \times 82 =$

**7**  $53 \div 4 =$

**8**  $686 + 549$

**9**  $35 \times 5$

**10**  $3 \overline{)69}$

© Andre Education Ltd

MY LAST SCORE?: ..... HAVE I BEAT THAT?: ..... **10**

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 understand 3d numbers

## Question 3

I can double 3d numbers

## Question 4

I can write Smile Multiplication Fact Families

## Question 5

I can solve  $3d + 3d$

## Question 6

I can solve  $1d \times 2d$  (2, 3, 4, 5x tables)

## Question 7

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

## Question 8

I can solve any  $3d + 3d$

## Question 9

I can solve a  $2d \times 1d$

## Question 10

I can solve a  $2d \div 1d$  (using  $\times 2, 3, 4, 5$ ) with no remainders inside the question

# 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 12

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.



Name:

Class:

Date:

1  $4.6$

2 Place in order  
311 131 331

3 Double  
437 is

4 Write the fact family for  
 $4 \times 30 = 120$

.....

.....

.....

5  $431 + 325 =$

6  $3 \times 82 =$

7  $53 \div 4 =$

8  $686$   
 $+ 549$

---

9  $35$   
 $\times 5$

---

10  $3 \overline{)69}$





Name:

Class:

Date:

1

$$\begin{array}{r} 4.6 \\ / \quad \backslash \\ 4 \quad 0.6 \end{array}$$

2 Place in order  
311 131 331  
**131 311 331**

3 Double  
437 is  
**874**

4 Write the fact family for  
**4 x 30 = 120**  
**30 x 4 = 120**  
.....  
**120 ÷ 30 = 4**  
.....  
**120 ÷ 4 = 30**  
.....

5 **431 + 325 =**  
**756**

6 **3 x 82 =**  
**246**

7 **53 ÷ 4 =**  
**13 r 1**

8 **686**  
**+ 549**  
**1235**

9

$$\begin{array}{r} 35 \\ \times 5 \\ \hline 175 \end{array}$$

10

$$\begin{array}{r} 23 \\ 3 \overline{)69} \end{array}$$


# Question Practice Resources

Question 1 - I can partition a number with  
1 decimal place

## **Remember to:**

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

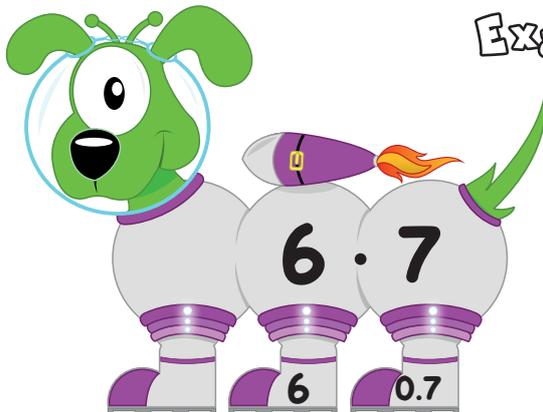
Step  
3

Place Value

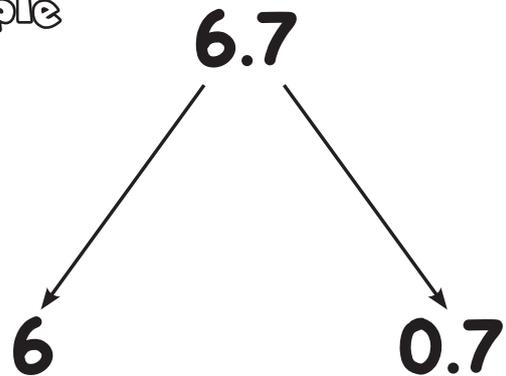
I can partition a 1dp number

**Remember to:**

- write the number
- draw the sticks
- copy the units digit
- copy the tenths digit... with 'a zero-point on the front



Example



1 Partition 2.4

2 Partition 5.1

3 Partition 3.9

4 Partition 9.2

5 Partition 8.2

6 Partition 4.6

7 Partition 5.9

8 Partition 1.7

9 Partition 9.6

10 Partition 5.5

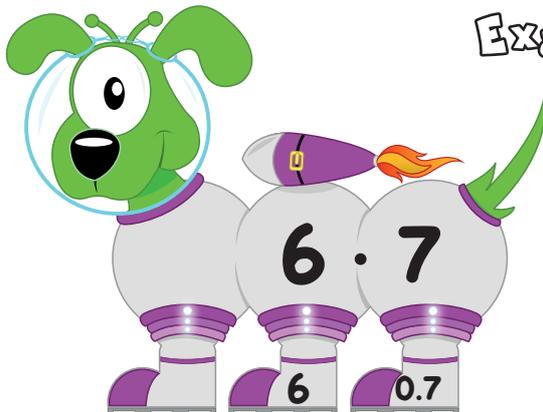
Step  
3

Place Value

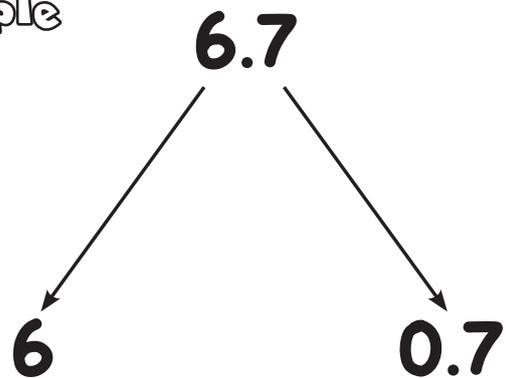
I can partition a 1dp number

**Remember to:**

- write the number
- draw the sticks
- copy the units digit
- copy the tenths digit... with 'a zero-point on the front



Example



1 2, 0.4

2 5, 0.1

3 3, 0.9

4 9, 0.2

5 8, 0.2

6 4, 0.6

7 5, 0.9

8 1, 0.7

9 9, 0.6

10 5, 0.5

# Question Practice Resources

## Question 2 - I can understand 3 digit numbers

### **Remember to:**

- order the numbers by their hundreds digit
- then, if they have the same hundreds digit, order by the tens digit
- then, if they have the same tens digit, order by the units digit

**Step**  
4**Mastery of Numbers**

I can understand 3d numbers

**Remember To:**

- order the numbers by their hundreds digit
- then, if they have the same hundreds digit, order by the tens digit
- then, if they have the same tens digit, order by the units digit

1

**323, 322,  
324, 321**

2

**655, 654,  
653, 652**

3

**122, 433,  
265, 311**

4

**544, 899,  
900, 371**

5

**999, 333,  
666, 777**

6

**421, 420,  
609, 611**

7

**975, 942,  
461, 533**

8

**180, 360,  
240, 560**

9

**761, 760,  
759, 758**

10

**430, 630,  
310, 250**

**Step**  
4**Mastery of Numbers**

I can understand 3d numbers

**Remember To:**

- order the numbers by their hundreds digit
- then, if they have the same hundreds digit, order by the tens digit
- then, if they have the same tens digit, order by the units digit

1

**321, 322,  
323, 324**

2

**652, 653,  
654, 655**

3

**122, 265,  
311, 433**

4

**371, 544,  
899, 900**

5

**333, 666,  
777, 999**

6

**420, 421,  
609, 611**

7

**461, 533,  
942, 975**

8

**180, 240,  
360, 560**

9

**758, 759,  
760, 761**

10

**250, 310,  
430, 630**

Step  
4

## Mastery of Numbers

I can understand 3d numbers

## Remember To:

- order the numbers by their hundreds digit
- then, if they have the same hundreds digit, order by the tens digit
- then, if they have the same tens digit, order by the units digit

1

**544g, 899g,  
900g, 371g**

2

**655cm, 654cm,  
653cm, 652cm**

3

**421L, 420L,  
609L, 611L**

4

**323m, 322m,  
324m, 321m**

5

**180s, 360s,  
240s, 560s**

6

**122km, 433km,  
265km, 311km**

7

**430kg, 630kg,  
310kg, 250kg**

8

**999mg, 333mg,  
666mg, 777mg**

9

**761mm, 760mm,  
759mm, 758mm**

10

**975kg, 942kg,  
461kg, 533kg**

**Step  
4**

**Mastery of Numbers**

I can understand 3d numbers

**Remember To:**

- order the numbers by their hundreds digit
- then, if they have the same hundreds digit, order by the tens digit
- then, if they have the same tens digit, order by the units digit

1

**371g, 544g,  
899g, 900g**

2

**652cm, 653cm,  
654cm, 655cm**

3

**420L, 421L,  
609L, 611L**

4

**321m, 322m,  
323m, 324m**

5

**180s, 240s,  
360s, 560s**

6

**122km, 265km,  
311km, 433km**

7

**250kg, 310kg,  
430kg, 630kg**

8

**333mg, 666mg,  
777mg, 999mg**

9

**758mm, 759mm,  
760mm, 761mm**

10

**461kg, 533kg,  
942kg, 975kg**

# Question Practice Resources

## Question 3 - I can double 3 digit numbers

### **Remember to:**

- partition the 3 digit numbers
- double the hundreds
- double the tens
- double the units
- put them back together again

**Step  
5****Doubling With Pim (With  
Crossing 10)**

I can double 3d numbers

**Remember To:**

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

**1****Double 890 is****2****Double 568 is****3****Double 679 is****4****Double 987 is****5****Double 698 is****6****Double 555 is****7****Double 843 is****8****Double 723 is****9****Double 720 is****10****Double 999 is**

**Step  
5****Doubling With Pim (With  
Crossing 10)**

I can double 3d numbers

**Remember To:**

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

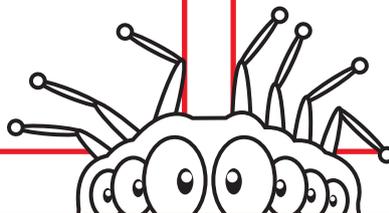
**1** Double 890 is **1780****2** Double 568 is **1136****3** Double 679 is **1358****4** Double 987 is **1974****5** Double 698 is **1396****6** Double 555 is **1110****7** Double 843 is **1686****8** Double 723 is **1446****9** Double 720 is **1440****10** Double 999 is **1998**

**Step  
5****Doubling With Pim (With  
Crossing 10)**

I can double 3d numbers

**Remember To:**

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

**1****Double 980m is****2****Double 577cm is****3****Double 666km is****4****Double 747g is****5****Double 322mg is****6****Double 555L is****7****Double 843ml is****8****Double 723s is****9****Double 720mm is****10****Double 999kg is**

Step  
5Doubling With Pim (With  
Crossing 10)

I can double 3d numbers

**Remember To:**

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

1

**Double 980m is  
1960m**

2

**Double 577cm is  
1154cm**

3

**Double 666km is  
1332km**

4

**Double 747g is  
1494g**

5

**Double 322mg is  
644mg**

6

**Double 555L is 1110L**

7

**Double 843ml is  
1686ml**

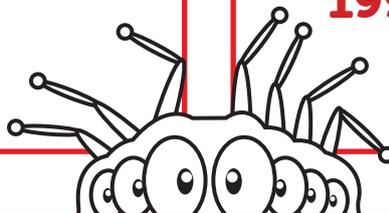
8

**Double 723s is 1446s**

9

**Double 720mm is  
1440mm**

10

**Double 999kg is  
1998kg**

**Step  
5****Doubling With Pim (With  
Crossing 10)**

I can double 3d numbers

**Remember to:**

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

**1**

**Pim has 2 boxes of sweets. Each box contains 578 sweets. How many sweets are there in total?**

**2**

**There are 766 people at a party. Each person 2 sandwiches. How many sandwiches are there in total?**

**3**

**A computer costs £869. How much do 2 computers cost?**

**4**

**Pim wants to buy 2 bars of gold. Each bar costs £999. How much does it cost in total?**

**5**

**What is double 665?**

**Step  
5****Doubling With Pim (With  
Crossing 10)**

I can double 3d numbers

**Remember to:**

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

**1****Pim has 2 boxes of sweets. Each box contains 578 sweets. How many sweets are there in total?****There are 1156 sweets in total.****2****There are 766 people at a party. Each person 2 sandwiches. How many sandwiches are there in total?****There are 1532 sandwiches in total.****3****A computer costs £869. How much do 2 computers cost?****They cost £1738.****4****Pim wants to buy 2 bars of gold. Each bar costs £999. How much does it cost in total?****It costs £1998 in total.****5****What is double 665?****The answer is 1330.**

# Question Practice Resources

## Question 4 - I can write Smile Multiplication Fact Families

### **Remember to:**

- copy the Smile Multiplication fact
- write the Switcher
- bring the product to the front, change the symbol and write the 2 switchers

Step  
3

INN: Multiplication

I can write Smile Multiplication  
Fact Families

**Remember to:**

- copy the 'Smile Multiplication' fact
- write the Switcher
- bring the product to the front, change the symbol and write the 2 switchers

$$6 \times 80 = 480$$

$$80 \times 6 = 480$$

$$480 \div 6 = 80$$

$$480 \div 80 = 6$$

$$1 \quad 5 \times 40 = 200$$

$$2 \quad 120 \div 60 = 2$$

$$3 \quad 8 \times 30 = 240$$

$$4 \quad 7 \times 80 = 560$$

$$5 \quad 420 \div 7 = 60$$

$$6 \quad 60 \times 4 = 240$$

$$7 \quad 7 \times 30 = 210$$

$$8 \quad 70 \times 5 = 350$$

$$9 \quad 90 \times 4 = 360$$

$$10 \quad 480 \div 8 = 60$$

**Step  
3**

**INN: Multiplication**

I can write Smile Multiplication  
Fact Families

**Remember to:**

- copy the 'Smile Multiplication' fact
- write the Switcher
- bring the product to the front, change the symbol and write the 2 switchers

$$6 \times 80 = 480$$

$$80 \times 6 = 480$$

$$480 \div 6 = 80$$

$$480 \div 80 = 6$$

**1**  $5 \times 40 = 200, 40 \times 5 = 200,$   
 $200 \div 5 = 40, 200 \div 40 = 5$

**2**  $120 \div 60 = 2, 120 \div 2 = 60,$   
 $60 \times 2 = 120, 2 \times 60 = 120$

**3**  $8 \times 30 = 240, 30 \times 8 = 240,$   
 $240 \div 8 = 30, 240 \div 30 = 8$

**4**  $7 \times 80 = 560, 80 \times 7 = 560,$   
 $560 \div 80 = 7, 560 \div 7 = 80$

**5**  $420 \div 7 = 60, 420 \div 60 = 7,$   
 $60 \times 7 = 420, 7 \times 60 = 420$

**6**  $60 \times 4 = 240, 4 \times 60 = 240,$   
 $240 \div 60 = 4, 240 \div 4 = 60$

**7**  $7 \times 30 = 210, 30 \times 7 = 210,$   
 $210 \div 30 = 7, 210 \div 7 = 30$

**8**  $70 \times 5 = 350, 5 \times 70 = 350,$   
 $350 \div 70 = 5, 350 \div 5 = 70$

**9**  $90 \times 4 = 360, 4 \times 90 = 360,$   
 $360 \div 90 = 4, 360 \div 4 = 90$

**10**  $480 \div 8 = 60, 480 \div 60 = 8,$   
 $60 \times 8 = 480, 8 \times 60 = 480$

Step  
3

INN: Multiplication

I can write Smile Multiplication  
Fact Families

**Remember to:**

- copy the 'Smile Multiplication' fact
- write the Switcher
- bring the product to the front, change the symbol and write the 2 switchers

Example

$$6 \times 80 = 480$$

$$80 \times 6 = 480$$

$$480 \div 6 = 80$$

$$480 \div 80 = 6$$

$$1 \quad 5\text{m} \times 40 = 200\text{m}$$

$$2 \quad 120\text{cm} \div 60 = 2\text{cm}$$

$$3 \quad 8\text{km} \times 30 = 240\text{km}$$

$$4 \quad 7\text{g} \times 80 = 560\text{g}$$

$$5 \quad 420\text{mg} \div 7 = 60\text{mg}$$

$$6 \quad 60\text{L} \times 4 = 240\text{L}$$

$$7 \quad 7\text{ml} \times 30 = 210\text{ml}$$

$$8 \quad 70\text{s} \times 5 = 350\text{s}$$

$$9 \quad 90\text{mm} \times 4 = 360\text{mm}$$

$$10 \quad 480\text{kg} \div 8 = 60\text{kg}$$

**Step  
3**

**INN: Multiplication**

I can write Smile Multiplication  
Fact Families

**Remember to:**

- copy the 'Smile Multiplication' fact
- write the Switcher
- bring the product to the front, change the symbol and write the 2 switchers

**Example**

$$6 \times 80 = 480$$

$$80 \times 6 = 480$$

$$480 \div 6 = 80$$

$$480 \div 80 = 6$$

**1**

**5m x 40 = 200m, 40m x 5 = 200m, 200m ÷ 5 = 40m, 200m ÷ 40 = 5m**

**3**

**8km x 30 = 240km, 30km x 8 = 240km, 240km ÷ 8 = 30km, 240km ÷ 30 = 8km**

**5**

**420mg ÷ 7 = 60mg, 420mg ÷ 60 = 7mg, 60mg x 7 = 420mg, 7mg x 60mg = 420mg**

**7**

**7ml x 30 = 210ml, 30ml x 7 = 210ml, 210ml ÷ 30 = 7ml, 210ml ÷ 7 = 30ml**

**9**

**90mm x 4 = 360mm, 4mm x 90 = 360mm, 360mm ÷ 90mm = 4mm, 360mm ÷ 4mm = 90mm**

**2**

**120cm ÷ 60 = 2cm, 120cm ÷ 2 = 60cm, 60cm x 2 = 120cm, 2cm x 60 = 120cm**

**4**

**7g x 80 = 560g, 80g x 7 = 560g, 560g ÷ 80 = 7g, 560g ÷ 7 = 80g**

**6**

**60L x 4 = 240, 4L x 60 = 240L, 240L ÷ 60 = 4L, 240L ÷ 4 = 60L**

**8**

**70s x 5s = 350s, 5s x 70 = 350s, 350s ÷ 70 = 5s, 350s ÷ 5 = 70s**

**10**

**480kg ÷ 8 = 60kg, 480kg ÷ 60kg = 8kg, 60kg x 8kg = 480kg, 8kg x 60kg = 480kg**

**Step**  
**3****INN: Multiplication**

I can write Smile Multiplication  
Fact Families

**Remember to:**

- copy the 'Smile Multiplication' fact
- write the Switcher
- bring the product to the front, change the symbol and write the 2 switchers

**1**

**Pim has 6 boxes. Each box has 20 sweets. Write out the Smile Multiplication Fact Family.**

**2**

**There are 4 friends at a party. Each friend gets 70 sweets. Write out the Smile Multiplication Fact Family.**

**3**

**A box of apples costs £5. Pim buys 60 boxes. Write out the Smile Multiplication Fact Family.**

**4**

**A box of oranges weighs 8kg. There are 90 boxes. Write out the Smile Multiplication Fact Family.**

**5**

**Pim has 9 jugs of water. Each jug contains 50L. Write out the Smile Multiplication Fact Family.**

**Step  
3**

**INN: Multiplication**

I can write Smile Multiplication  
Fact Families

**Remember to:**

- copy the 'Smile Multiplication' fact
- write the Switcher
- bring the product to the front, change the symbol and write the 2 switchers

**1**

**Pim has 6 boxes. Each box has 20 sweets. Write out the Smile Multiplication Fact Family.**

**There are 120 sweets in total.  $6 \times 20 \text{ sweets} = 120 \text{ sweets}$ ,  
 $20 \times 6 = 120$ ,  $120 \div 6 = 20$ ,  $120 \div 20 = 6$ .**

**2**

**There are 4 friends at a party. Each friend gets 70 sweets. Write out the Smile Multiplication Fact Family.**

**There are 280 sweets in total.  $4 \times 70 \text{ sweets} = 280 \text{ sweets}$ ,  
 $70 \times 4 = 280$ ,  $280 \div 70 = 4$ ,  $280 \div 4 = 70$ .**

**3**

**A box of apples costs £5. Pim buys 60 boxes. Write out the Smile Multiplication Fact Family.**

**It costs £300.  
 $£5 \times 60 = £300$ ,  $60 \times 5 = 300$ ,  $300 \div 5 = 60$ ,  $300 \div 60 = 5$ .**

**4**

**A box of oranges weighs 8kg. There are 90 boxes. Write out the Smile Multiplication Fact Family.**

**The total weight is 720kg.  
 $8\text{kg} \times 90 = 720\text{kg}$ ,  $90 \times 8 = 720$ ,  $720 \div 90 = 8$ ,  $720 \div 8 = 90$ .**

**5**

**Pim has 9 jugs of water. Each jug contains 50L. Write out the Smile Multiplication Fact Family.**

**There is 450L in total.  
 $9 \times 50\text{L} = 450\text{L}$ ,  $50 \times 9 = 450$ ,  $450 \div 50 = 9$ ,  $450 \div 9 = 50$ .**

# Question Practice Resources

Question 5 - I can solve 3 digit + 3 digit

## **Remember to:**

- add the hundreds
- add the tens
- add the units
- add the totals

**Step  
28****Addition**I can solve  $3d + 3d$ **Remember To:**

- add the hundreds
- add the tens
- add the units
- add the totals

**1**

**$111 + 603 =$**

**2**

**$583 + 211 =$**

**3**

**$278 + 621 =$**

**4**

**$197 + 602 =$**

**5**

**$582 + 203 =$**

**6**

**$500 + 359 =$**

**7**

**$882 + 110 =$**

**8**

**$202 + 546 =$**

**9**

**$757 + 112 =$**

**10**

**$638 + 100 =$**

**Step**  
**28****Addition**I can solve  $3d + 3d$ **Remember To:**

- add the hundreds
- add the tens
- add the units
- add the totals

**1**

$$111 + 603 = 714$$

**2**

$$583 + 211 = 794$$

**3**

$$278 + 621 = 899$$

**4**

$$197 + 602 = 799$$

**5**

$$582 + 203 = 785$$

**6**

$$500 + 359 = 859$$

**7**

$$882 + 110 = 992$$

**8**

$$202 + 546 = 748$$

**9**

$$757 + 112 = 869$$

**10**

$$638 + 100 = 738$$

**Step  
28****Addition**I can solve  $3d + 3d$ **Remember To:**

- add the hundreds
- add the tens
- add the units
- add the totals

**1**

**$222m + 615m =$**

**2**

**$589m + 211m =$**

**3**

**$278L + 621L =$**

**4**

**$197cm + 602cm =$**

**5**

**$582km + 203km =$**

**6**

**$500s + 359s =$**

**7**

**$883m + 110m =$**

**8**

**$206m + 546m =$**

**9**

**$757kg + 112kg =$**

**10**

**$648L + 300L =$**

Step  
28

Addition

I can solve  $3d + 3d$ **Remember To:**

- add the hundreds
- add the tens
- add the units
- add the totals

$$1 \quad 222\text{m} + 615\text{m} = 837\text{m}$$

$$2 \quad 589\text{m} + 211\text{m} = 800\text{m}$$

$$3 \quad 278\text{l} + 621\text{L} = 899\text{L}$$

$$4 \quad 197\text{cm} + 602\text{cm} = 799\text{cm}$$

$$5 \quad 582\text{km} + 203\text{km} = 785\text{km}$$

$$6 \quad 500\text{s} + 359\text{s} = 859\text{s}$$

$$7 \quad 883\text{m} + 110\text{m} = 992\text{m}$$

$$8 \quad 206\text{m} + 546\text{m} = 752\text{m}$$

$$9 \quad 757\text{kg} + 112\text{kg} = 869\text{kg}$$

$$10 \quad 648\text{L} + 300\text{L} = 948\text{L}$$

**Step  
28****Addition**I can solve  $3d + 3d$ **Remember to:**

- add the hundreds
- add the tens
- add the ones (units)
- add the totals

**1**

**Mully has 321 conkers and his friend gives him 222 more. How many conkers does Mully have?**

**2**

**Pim has 576 balls. Pom has 421 balls. How many do they have altogether?**

**3**

**Pom is 443cm tall. Pim is 231cm tall. How tall are they together?**

**4**

**What is 566 add 323?**

**5**

**Pom bought books for £212 and toys for £206. How much did he spend?**

**Step  
28****Addition**I can solve  $3d + 3d$ **Remember to:**

- add the hundreds
- add the tens
- add the ones (units)
- add the totals

**1**

Mully has 321 conkers and his friend gives him 222 more. How many conkers does Mully have?

**Mully has 543 conkers.**

**2**

Pim has 576 balls. Pom has 421 balls. How many do they have altogether?

**They have 997 balls altogether.**

**3**

Pom is 443cm tall. Pim is 231cm tall. How tall are they together?

**They are 674cm tall together.**

**4**

What is 566 add 323?

**The answer is 889.**

**5**

Pom bought books for £212 and toys for £206. How much did he spend?

**He spent £418.**

Step  
28

Addition

I can solve  $3d + 3d$

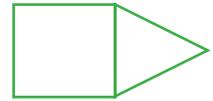
**Remember To:**

- add the hundreds
- add the tens
- add the ones
- add the totals

1



The total distance around this square is 440mm. An equilateral triangle is placed against the square as shown. What is the total distance around the shape that has been formed?



2



A shop sells bottled water in two sizes. The large bottle has a capacity of 600ml and the small bottle has a capacity of 225ml. Rachel drinks all the water from one small bottle and three quarters of the large bottle. How much water has she drunk?

3



A bag of five medium size oranges weighs 400g. The weight of a large pear is 85g. Josh says that this means that three medium size oranges and three large pears will weigh just under half a kilogram. Do you agree or disagree?

4

What number does the letter **m** represent?



5

Which is the odd one out?

**110g + 240g**

**$\frac{1}{2}$  kg - 150g**

**Double 185g**

**400g - 50g**

**Step  
28****Addition**I can solve  $3d + 3d$ **Remember To:**

- add the hundreds
- add the tens
- add the ones
- add the totals

1

The total distance around the shape is 770mm.

2

Altogether she has drunk 675ml of water.

3

I agree. The total weight would be 495g.

4

$$m = 429$$

5

$$110\text{g} + 240\text{g} \quad \frac{1}{2}\text{ kg} - 150\text{g}$$

$$\text{Double } 185\text{g} \quad 400\text{g} - 50\text{g}$$

# Question Practice Resources

Question 6 - I can solve 1 digit x 2 digit  
(2, 3, 4, 5x tables)

## **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  
11****Multiplication**

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

**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**  $2 \times 36 =$

**2**  $2 \times 97 =$

**3**  $4 \times 35 =$

**4**  $3 \times 92 =$

**5**  $4 \times 22 =$

**6**  $2 \times 71 =$

**7**  $4 \times 12 =$

**8**  $4 \times 49 =$

**9**  $2 \times 41 =$

**10**  $4 \times 27 =$

Step  
11

## Multiplication

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

## 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

$$2 \times 36 = 72$$

2

$$2 \times 97 = 194$$

3

$$4 \times 35 = 140$$

4

$$3 \times 92 = 276$$

5

$$4 \times 22 = 88$$

6

$$2 \times 71 = 142$$

7

$$4 \times 12 = 48$$

8

$$4 \times 49 = 196$$

9

$$2 \times 41 = 82$$

10

$$4 \times 27 = 108$$

**Step**  
**11****Multiplication**

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

**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**  $4 \times 36\text{m} =$

**2**  $2 \times 87\text{cm} =$

**3**  $5 \times 35\text{km} =$

**4**  $3 \times 92\text{g} =$

**5**  $5\text{mg} \times 22 =$

**6**  $2\text{L} \times 71 =$

**7**  $4\text{ml} \times 12\text{ml} =$

**8**  $4\text{s} \times 49 =$

**9**  $2 \times 41\text{mm} =$

**10**  $4 \times 27\text{kg} =$

Step  
11

## Multiplication

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

## 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)

$$1 \quad 4 \times 36\text{m} = 144\text{m}$$

$$2 \quad 2 \times 87\text{cm} = 174\text{cm}$$

$$3 \quad 5 \times 35\text{km} = 175\text{km}$$

$$4 \quad 3 \times 92\text{g} = 276\text{g}$$

$$5 \quad 5\text{mg} \times 22 = 110\text{mg}$$

$$6 \quad 2\text{L} \times 71 = 142\text{L}$$

$$7 \quad 4\text{ml} \times 12 = 48\text{ml}$$

$$8 \quad 4\text{s} \times 49 = 196\text{s}$$

$$9 \quad 2 \times 41\text{mm} = 82\text{mm}$$

$$10 \quad 4 \times 27\text{kg} = 108\text{kg}$$

**Step  
11****Multiplication**

I can solve  $1d \times 2d$  (2, 3, 4, 5x tables)

**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**

**4 friends put together their sweets. They each have 52 sweets. How many are there in total?**

**2**

**A box of chocolates has 5 options in it. How many chocolates are in 34 boxes?**

**3**

**A box of oranges weighs 3kg. There are 25 boxes. What is the total weight?**

**4**

**A jug contains 5L of water. There are 43 jugs. How much water is there in total?**

**5**

**What is 3 times 44?**

**Step  
11****Multiplication**

I can solve  $1d \times 2d$  (2, 3, 4, 5x tables)

**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**

**4 friends put together their sweets. They each have 52 sweets. How many are there in total?**

**There are 208 sweets.**

**2**

**A box of chocolates has 5 options in it. How many chocolates are in 34 boxes?**

**There are 170 chocolates.**

**3**

**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**

**What is 3 times 44?**

**The answer is 132.**

**Step 11**

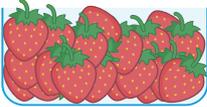
## Multiplication

I can solve  $1d \times 2d$  (2, 3, 4, 5x tables)

### 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



Plastic containers of strawberries are reduced to 89p for a 'quick sale'. Chris wants to make some homemade strawberry jam and so buys five containers. How much change will he get from £5?

2



A pack of three pencils costs 46p. Rachel has £2 to spend on pencils. How many pencils can she buy? What change does she get?



3

**48 pens**

In one box there are 48 pens. Jamie buys four boxes because you get an extra box free when you buy four boxes. How many pens is that altogether?

4

A regular pentagon and a square have the same perimeter. If each side of the regular pentagon measures 32cm, then what is the length of the side of the square?

5



Cup cakes are sold in two different sizes – small and large. The large size costs 48p each. James buys four cup cakes – three large and one small. He pays with a £2 coin and gets 26p change. What does a small cup cake cost?

Step  
11

## Multiplication

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

### 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

He will get 55 pence change.

2

Rachel can buy 4 packs of pencils (12 pencils)  
She would get 16 pence in change.

3

That is 240 pens altogether.

4

The length of one side of the square is 40cm.

5

A small cupcake costs 30p.

# Question Practice Resources

$68 \div 5$  Child sees question '68  $\div$  5'

50!  
18 left

15!  
3 left

10 lots  
3 lots  
3 left

13 r3

Child re-sees 10th multiple jump out and how many are left

Child sees how many more lots there are and how many are left

Child holds in brain how many lots have been used and how many are left over

Child says the final total successfully

13 r3

Question 7 - 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

Step  
19

## 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

$1 \quad 38 \div 3 =$

$2 \quad 72 \div 5 =$

$3 \quad 40 \div 3 =$

$4 \quad 73 \div 5 =$

$5 \quad 35 \div 2 =$

$6 \quad 35 \div 3 =$

$7 \quad 66 \div 5 =$

$8 \quad 34 \div 3 =$

$9 \quad 31 \div 2 =$

$10 \quad 37 \div 3 =$

Step  
19

## 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

$$1 \quad 38 \div 3 = 12 \text{ r}2$$

$$2 \quad 72 \div 5 = 14 \text{ r}2$$

$$3 \quad 40 \div 3 = 13 \text{ r}1$$

$$4 \quad 73 \div 5 = 14 \text{ r}3$$

$$5 \quad 35 \div 2 = 17 \text{ r}1$$

$$6 \quad 35 \div 3 = 11 \text{ r}2$$

$$7 \quad 66 \div 5 = 13 \text{ r}1$$

$$8 \quad 34 \div 3 = 11 \text{ r}1$$

$$9 \quad 31 \div 2 = 15 \text{ r}1$$

$$10 \quad 37 \div 3 = 12 \text{ r}1$$

Step  
19

## 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

$$1 \quad 40\text{m} \div 3 =$$

$$2 \quad 84\text{cm} \div 5 =$$

$$3 \quad 41\text{km} \div 3 =$$

$$4 \quad 73\text{g} \div 5 =$$

$$5 \quad 35\text{mg} \div 2 =$$

$$6 \quad 35\text{L} \div 3 =$$

$$7 \quad 66\text{ml} \div 5 =$$

$$8 \quad 34\text{s} \div 3 =$$

$$9 \quad 31\text{mm} \div 2 =$$

$$10 \quad 37\text{kg} \div 3 =$$

Step  
19

## 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

$$1 \quad 40\text{m} \div 3 = 13\text{m r}1\text{m}$$

$$2 \quad 84\text{cm} \div 5 = 16\text{cm r}4\text{cm}$$

$$3 \quad 41\text{km} \div 3 = 13\text{km r}2\text{km}$$

$$4 \quad 73\text{g} \div 5 = 14\text{g r}3\text{g}$$

$$5 \quad 35\text{mg} \div 2 = 17\text{mg r}1\text{mg}$$

$$6 \quad 35\text{L} \div 3 = 11\text{L r}2\text{L}$$

$$7 \quad 66\text{ml} \div 5 = 13\text{ml r}1\text{ml}$$

$$8 \quad 34\text{s} \div 3 = 11\text{s r}1\text{s}$$

$$9 \quad 31\text{mm} \div 2 = 15\text{mm r}1\text{mm}$$

$$10 \quad 37\text{kg} \div 3 = 12\text{kg r}1\text{kg}$$

**Step  
19****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?**

**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?**

**3**

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

**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?**

**5**

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

**Step  
19****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.**

**Step 19**

### 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

The red rectangle is 4cm long. What is length of a green rectangle?



2

Annie and Ben are making 2D shapes with different lengths of ribbon. They agree that the lengths of any shapes that they make will be a whole number of centimetres. The shapes will also all be regular. Starting with a length of ribbon 88cm long, what is the largest pentagon they can make?



3



A shop sells packs of apples with three apples in every pack. A teacher has twenty eight pupils in his class. If he wants to give every child two apples each, then how many packs will he have to buy?

4

Which is the odd one out?

$$100\text{Kg} - 72\text{Kg}$$

$$\text{Double } 14000\text{g}$$

$$(120\text{Kg} \div 5) + 3\text{Kg}$$

5

Tom looks at the coins he has in his pocket. He says that if he had another 3p, then he could share his money equally between four people. Agree or disagree?



**Step**  
**19****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**

The length of a green rectangle is 7cm.

**2**

The size of the largest pentagon they can make is 80cm.

**3**

He would have to buy 19 packs.

**4****100Kg - 72Kg****Double 14000g****(120Kg ÷ 5) + 3Kg****5**

Yes, I agree with Tom.

# Question Practice Resources

Question 8 - I can solve any 3 digit + 3 digit

**Step  
6****Addition  
Column Methods**

I can solve any 3d + 3d

**Example**

$$\begin{array}{r} 686 \\ + 549 \\ \hline 1235 \\ \hline 11 \end{array}$$

**1**

**$454 + 823$**

**2**

**$566 + 877$**

**3**

**$625 + 722$**

**4**

**$640 + 732$**

**5**

**$100 + 999$**

**6**

**$168 + 899$**

**7**

**$788 + 324$**

**8**

**$335 + 654$**

**9**

**$256 + 662$**

**10**

**$343 + 989$**

Step  
6Addition  
Column Methods

I can solve any 3d + 3d

Example

$$\begin{array}{r} 686 \\ + 549 \\ \hline 1235 \\ \hline 11 \end{array}$$

1

$454 + 823 = 1277$

2

$566 + 877 = 1443$

3

$625 + 722 = 1347$

4

$640 + 732 = 1372$

5

$100 + 999 = 1099$

6

$168 + 899 = 1067$

7

$788 + 324 = 1112$

8

$335 + 654 = 989$

9

$256 + 662 = 918$

10

$343 + 989 = 1332$

# Question Practice Resources

Question 9 - I can combine 2 digit x 1 digit  
(using column method)

**Step 1**

**Multiplication Column Methods**

I can solve a 2d x 1d

**Example**

$$\begin{array}{r} \phantom{0}^2 35 \\ \times \phantom{0} 5 \\ \hline 175 \end{array}$$

1 **23 x 2**

2 **44 x 2**

3 **21 x 4**

4 **49 x 2**

5 **33 x 3**

6 **25 x 3**

7 **13 x 5**

8 **10 x 5**

9 **17 x 4**

10 **20 x 4**

Step  
1Multiplication  
Column Methods

I can solve a 2d x 1d

Example

$$\begin{array}{r} 35 \\ \times 5 \\ \hline 175 \end{array}$$

1

$23 \times 2 = 46$

2

$44 \times 2 = 88$

3

$21 \times 4 = 84$

4

$49 \times 2 = 98$

5

$33 \times 3 = 99$

6

$25 \times 3 = 75$

7

$13 \times 5 = 65$

8

$10 \times 5 = 50$

9

$17 \times 4 = 68$

10

$20 \times 4 = 80$

# Question Practice Resources

Question 10 - I can solve 2 digit  $\div$  1 digit  
(using x2, 3, 4, 5) with no remainders

**Step 1**

**Division Column Methods**

I can solve a 2d ÷ 1d (using x 2,3,4,5) No remainders inside the question

**Example**

$$3 \overline{) 69} \begin{array}{r} 23 \\ \end{array}$$

**1**  $48 \div 2$

**2**  $96 \div 3$

**3**  $10 \div 2$

**4**  $55 \div 5$

**5**  $69 \div 3$

**6**  $88 \div 4$

**7**  $30 \div 3$

**8**  $46 \div 2$

**9**  $39 \div 3 =$

**10**  $44 \div 4 =$

Step  
1Division  
Column Methods

I can solve a 2d ÷ 1d (using x 2,3,4,5) No remainders inside the question

Example

$$3 \overline{) 69} \begin{array}{r} 23 \\ \end{array}$$

$1 \quad 48 \div 2 = 24$

$2 \quad 96 \div 3 = 32$

$3 \quad 10 \div 2 = 5$

$4 \quad 55 \div 5 = 11$

$5 \quad 69 \div 3 = 23$

$6 \quad 88 \div 4 = 22$

$7 \quad 30 \div 3 = 10$

$8 \quad 46 \div 2 = 23$

$9 \quad 39 \div 3 = 13$

$10 \quad 44 \div 4 = 11$