



A Guide for Home Learning

CLIC 18

Introduction - CLIC 18

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 18 SET 1

BEAT THAT!

Names: _____

Class: _____

Date: _____

1. 4.389

2. Round to the nearest 1000
2,567,328

3. 25 0 -25 -50

4. -3 -7 The gap is

5. $4.31 \times 1000 =$
 $134.8 \div 1000 =$

6. Circle the Prime Numbers
3 9 15 17

7. $3.89 + 2.42 =$

8. $4.5 - 1.7 =$

9. $273 \div 13 =$

10. $81686 + 66549$

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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 3 decimal place number

Question 2

I can understand 5, 6, 7, 8 digit numbers

Question 3

I can count along in 4 ways: $-1s$ / $-2s$ / $-5s$ / $-25s$ | $-25s$

Question 4

I can find the gap between 2 negative numbers

Question 5

I can multiply whole numbers and decimals by 1000

Question 6

I understand prime numbers

Question 7

I can solve any additions with 2 decimal place numbers

Question 8

I can subtract numbers with tenths

Question 9

I can combine 2 or more Coin Facts to solve division

Question 10

I can solve any 5 digit + 5 digit

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 18

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 **4.389**

2 Round to the nearest 1000
2,567,328

3

25	0	-25	-50	
----	---	-----	-----	--

4 **-3** The gap is **-7**

5 $4.31 \times 1000 =$
 $134.8 \div 1000 =$

6 Circle the Prime Numbers
3 9 15 17

7 $3.89 + 2.42 =$

8 $4.5 - 1.7 =$

9 $273 \div 13 =$

10 $81686 + 66549$





Name: _____

Class: _____

Date: _____

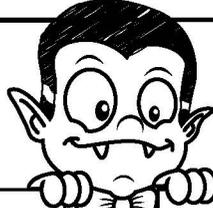
1 **4.389**

4 0.3 0.08 0.009

2 Round to the nearest 1000

2,567,328

2,567,000

3 

25	0	-25	-50	-75
----	---	-----	-----	-----

4 **-3** The gap is

-7 **4**

5

$4.31 \times 1000 = \mathbf{4310}$

$134.8 \div 1000 = \mathbf{0.1348}$

6 Circle the Prime Numbers

3 9 15 **17**

7 $3.89 + 2.42 =$

6.31



8 $4.5 - 1.7 =$

2.8



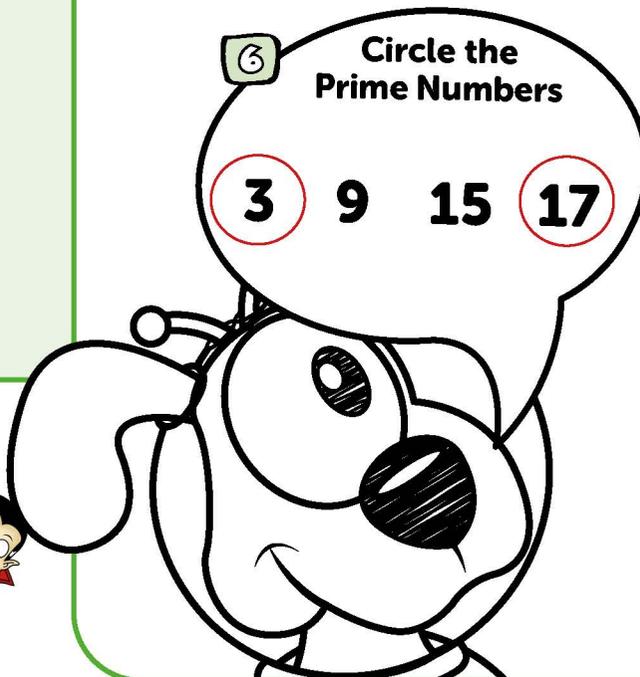
9 $273 \div 13 =$

21



10

81686
+ 66549
148235

Question Practice Resources

Question 1 - I can partition a 3 decimal place 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
- copy the thousandths digit with 'zero-point-zero-zero' in front of it

Step
5

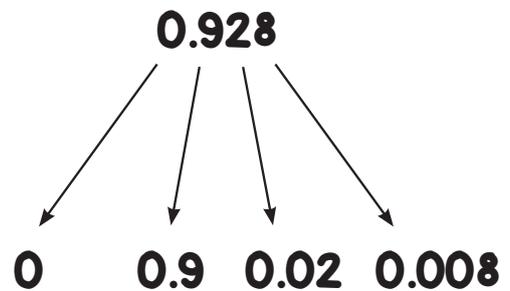
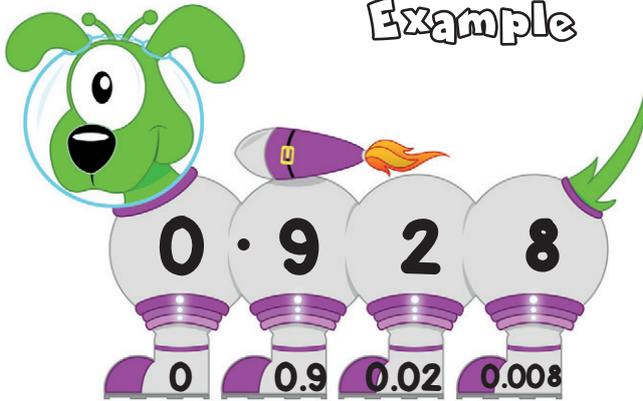
Place Value

I can partition a 3dp 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
- copy the thousandths digit... with 'zero-point-zero-zero' in front of it

Example



1 Partition 5.094

2 Partition 1.489

3 Partition 6.579

4 Partition 9.936

5 Partition 4.357

6 Partition 2.873

7 Partition 7.456

8 Partition 0.865

9 Partition 8.731

10 Partition 3.129

Step
5

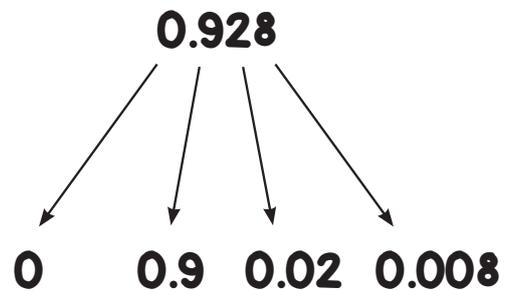
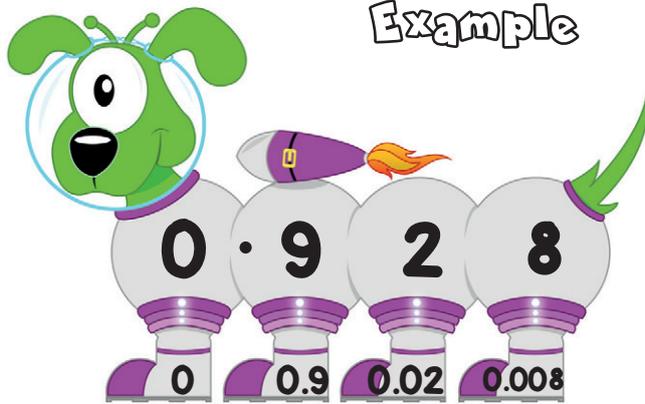
Place Value

I can partition a 3dp 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
- copy the thousandths digit... with 'zero-point-zero-zero' in front of it

Example



1 5, 0.0, 0.09, 0.004

2 1, 0.4, 0.08, 0.009

3 6, 0.5, 0.07, 0.009

4 9, 0.9, 0.03, 0.006

5 4, 0.3, 0.05, 0.007

6 2, 0.8, 0.07, 0.003

7 7, 0.4, 0.05, 0.006

8 0, 0.8, 0.06, 0.005

9 8, 0.7, 0.03, 0.001

10 3, 0.1, 0.02, 0.009

Question Practice Resources

Question 2 - I can understand 5, 6, 7 and 8 digit numbers

Remember to:

- compare the value of the digits furthest to the left
- only if they have the same value, move on to compare the next digit along and so on

Step
9

Mastery of Numbers

I can understand 5, 6, 7, 8d
numbers

Remember To:

1

$$45,343 > 45,342$$

2

$$572,500 > 472,500$$

3

$$2,756,231 < 5,000,000$$

4

$$10,000,500 < 13,500,000$$

5

$$888,410 > 954,432$$

6

$$500,000 < 650,000$$

7

$$76,546 < 76,646$$

8

$$6,870,400 < 6,870,500$$

9

$$25,000,452 < 52,542,897$$

10

$$99,873 > 98,873$$

Step
9**Mastery of Numbers**I can understand 5, 6, 7, 8d
numbers**Remember To:**

1

true

2

true

3

true

4

true

5

false

6

true

7

true

8

true

9

true

10

true

Step
9

Mastery of Numbers

I can understand 5, 6, 7, 8d numbers

Remember To:

- compare the value of the digits furthest to the left
- only if they have the same value, move on to compare the next digit along and so on.

1

$$45,343\text{m} > 45,342\text{m}$$

2

$$572,500\text{cm} > 472,500\text{cm}$$

3

$$2,756,231\text{km} < 5,000,000\text{km}$$

4

$$10,000,500\text{g} < 13,500,000\text{g}$$

5

$$888,410\text{mg} > 954,432\text{mg}$$

6

$$500,000\text{L} < 650,000\text{L}$$

7

$$76,546\text{ml} < 76,646\text{ml}$$

8

$$6,870,400\text{s} < 6,870,500\text{s}$$

9

$$25,000,452\text{mm} < 52,542,897\text{mm}$$

10

$$99,873\text{kg} > 98,873\text{kg}$$

Step
9**Mastery of Numbers**

I can understand 5, 6, 7, 8d numbers

Remember To:

- compare the value of the digits furthest to the left
- only if they have the same value, move on to compare the next digit along and so on.

1

true

2

true

3

true

4

true

5

false

6

true

7

true

8

true

9

true

10

true

Question Practice Resources

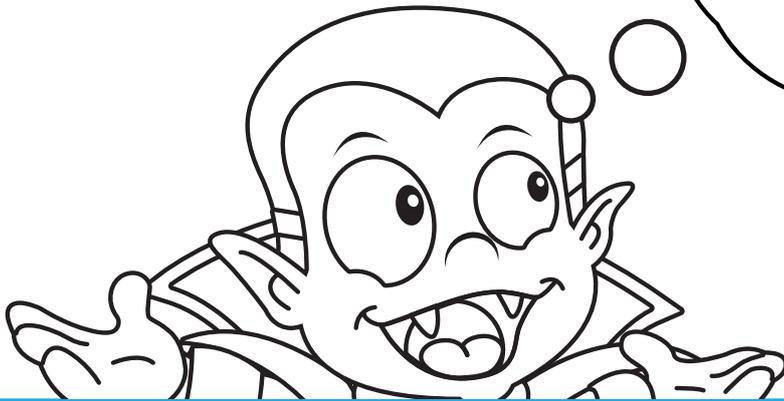
Question 3 - I can can count along in 4 ways:
-1s / -2s / -5s / -25s | -25s

Step
7

Count Along in 4 Ways

-1s / -2s / -5s / -25s

Example



1 -1, -2,

2 -10, -9,

3 -17, -16,

4 -24, -25,

5 -31, -32,

6 -43, -42,

7 -75, -76,

8 -82, -83,

9 -95, -94,

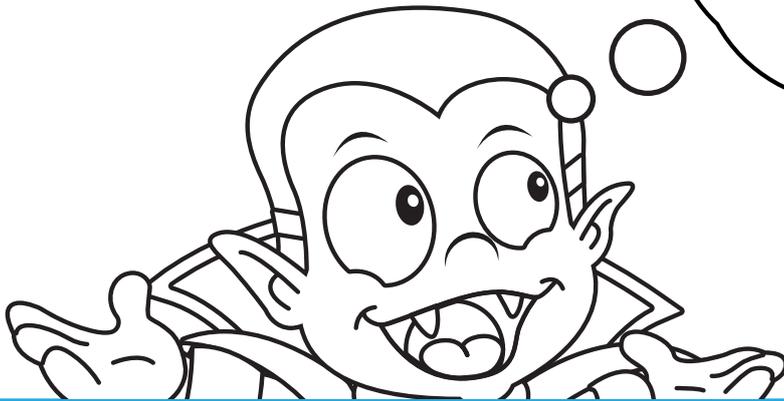
10 -66, -67,

Step
7

Count Along in 4 Ways

-1s / -2s / -5s / -25s

Example



① -1, -2, -3, -4, -5

② -10, -9, -8, -7, -6

③ -17, -16, -15, -14, -13

④ -24, -25, -26, -27, -28

⑤ -31, -32, -33, -34, -35

⑥ -43, -42, -41, -40, -39

⑦ -75, -76, -77, -78, -79

⑧ -82, -83, -84, -85, -86

⑨ -95, -94, -93, -92, -91

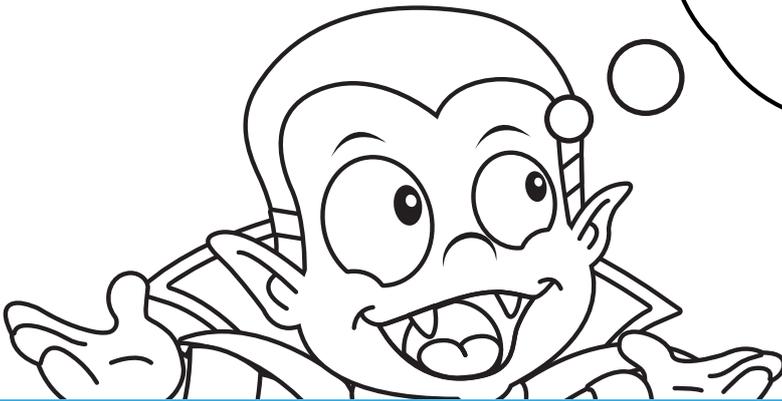
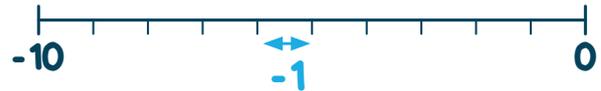
⑩ -66, -67, -68, -69, -70

Step
7

Count Along in 4 Ways

-1s / -2s / -5s / -25s

Example



1 -1m, -2m,

2 -10cm, -9cm,

3 -17km, -16km,

4 -24g, -25g,

5 -31mg, -32mg,

6 -43L, -42L,

7 -75ml, -76ml,

8 -82s, -83s,

9 -95mm, -94mm,

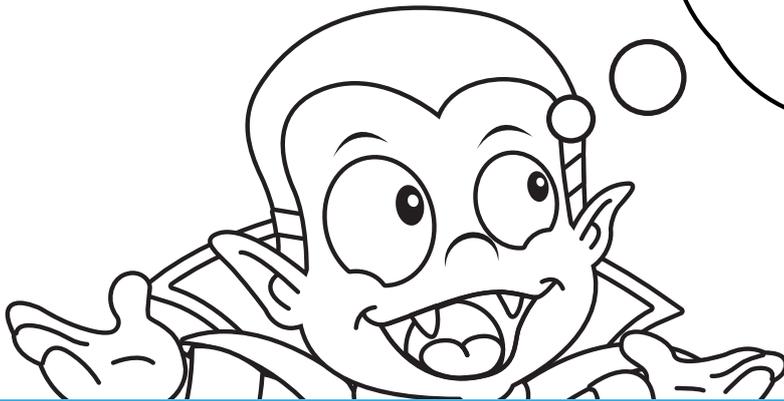
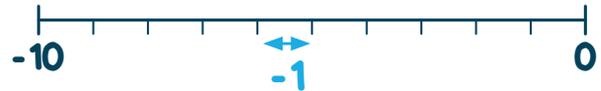
10 -66kg, -67kg,

Step
7

Count Along in 4 Ways

-1s / -2s / -5s / -25s

Example

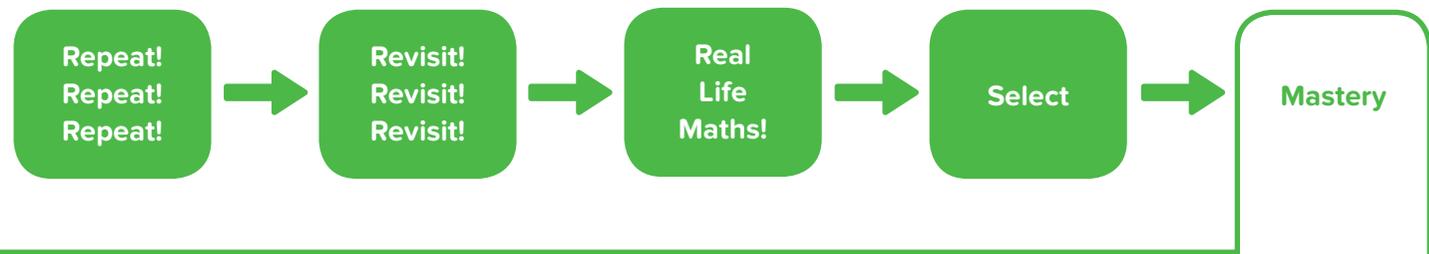


- 1 -1m, -2m, -3m, -4m, -5m
- 3 -17km, -16km, -15km, -14km, -13km
- 5 -31mg, -32mg, -33mg, -34mg, -35mg
- 7 -75ml, -76ml, -77ml, -78ml, -79ml
- 9 -95mm, -94mm, -93mm, -92mm, -91mm

- 2 -10cm, -9cm, -8cm, -7cm, -6cm
- 4 -24g, -25g, -26g, -27g, -28g
- 6 -43L, -42L, -41L, -40L, -39L
- 8 -82s, -83s, -84s, -85s, -86s
- 10 -66kg, -67kg, -68kg, -69kg, -70kg

Question Practice Resources

Question 4 - I can find the gap between 2 negative numbers



PIM VS POM



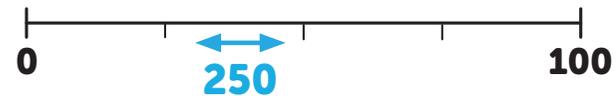
The 'Pim vs Pom' game is applicable to all the steps in the Counting Along Progress Drive, with the jumps and start and end points varied according to the context.

Steps 1 - 5

1. Can you find two numbers with a **gap of 3**?
2. Count along number lines with familiar number of divisions, but unexpected end values - e.g. 20 to 40 with 4 divisions.
3. Use all of these digit cards to label the values of the marked divisions on this number line;



4. Mark and **label 5 more** numbers that are not already shown on this number line.



Step 6

1. On a single number line **-20 to 20** draw the gaps between **-12 and -8**, and **12 and 8**. What do you notice?
2. The gap between my **two numbers is 6**. They are both **negative**. What numbers could they be?

Step 7

1. Which number is the **same distance** from **-6 and 4**?
2. What number is **half way** between **12 and -2**?
3. One of my **numbers is 3**. **The other is 7 away**. What could the other number be?
4. In my office block, the entrance is on the Ground Floor. You can go **17 floors up** in the lift, and then there are **5 even higher floors** that you can only access using a staircase. There is also a basement below the ground floor. On the day when the lift is not working, is it quicker to walk from my desk on the **11th floor** to a cafe in the basement, or to the one on the top floor?

Question Practice Resources

Question 5 - I can multiply whole numbers and decimals by 1000

Remember to:

- move the digits three places to the left
- remember that this makes the number 1000 times bigger

**Step
5****Multiplying by 10**

I can multiply whole numbers and decimals by 1000

Remember To:

- move the digits three places to the left
- remember that this makes the number 1000 times bigger

1 $2.9 \times 1000 =$

2 $89 \times 1000 =$

3 $4.5 \times 1000 =$

4 $76 \times 1000 =$

5 $0.8 \times 1000 =$

6 $4.3 \times 1000 =$

7 $0.1 \times 1000 =$

8 $67 \times 1000 =$

9 $5.5 \times 1000 =$

10 $99 \times 1000 =$

Step
5**Multiplying by 10**

I can multiply whole numbers and decimals by 1000

Remember To:

- move the digits three places to the left
- remember that this makes the number 1000 times bigger

1 $2.9 \times 1000 = 2900$

2 $89 \times 1000 = 89000$

3 $4.5 \times 1000 = 4500$

4 $76 \times 1000 = 76000$

5 $0.8 \times 1000 = 800$

6 $4.3 \times 1000 = 4300$

7 $0.1 \times 1000 = 100$

8 $67 \times 1000 = 67000$

9 $5.5 \times 1000 = 5500$

10 $99 \times 1000 = 99000$

Step
5

Multiplying by 10

I can multiply whole numbers and decimals by 1000

Remember To:

- move the digits three places to the left
- remember that this makes the number 1000 times bigger

1 $76\text{g} \times 1000 =$

2 $89\text{cm} \times 1000 =$

3 $4.3\text{L} \times 1000 =$

4 $2.9\text{m} \times 1000 =$

5 $0.8\text{mg} \times 1000 =$

6 $4.5\text{km} \times 1000 =$

7 $0.1\text{ml} \times 1000 =$

8 $67\text{s} \times 1000 =$

9 $5.5\text{mm} \times 1000 =$

10 $99\text{kg} \times 1000 =$

Step
5

Multiplying by 10

I can multiply whole numbers and decimals by 1000

Remember To:

- move the digits three places to the left
- remember that this makes the number 1000 times bigger

$$1 \quad 76\text{g} \times 1000 = 76000\text{g}$$

$$2 \quad 89\text{cm} \times 1000 = 89000\text{cm}$$

$$3 \quad 4.3\text{L} \times 1000 = 4300\text{L}$$

$$4 \quad 2.9\text{m} \times 1000 = 2900\text{m}$$

$$5 \quad 0.8\text{mg} \times 1000 = 800\text{mg}$$

$$6 \quad 4.5\text{km} \times 1000 = 4500\text{km}$$

$$7 \quad 0.1\text{ml} \times 1000 = 100\text{ml}$$

$$8 \quad 67\text{s} \times 1000 = 67000\text{s}$$

$$9 \quad 5.5\text{mm} \times 1000 = 5500\text{mm}$$

$$10 \quad 99\text{kg} \times 1000 = 99000\text{kg}$$

**Step
5****Multiplying by 10**

I can multiply whole numbers and decimals by 1000

Remember to:

- move the digits three places to the left
- remember that this makes the number 1000 times bigger

1

Pim has 1000 boxes. Each box has 2.6kg of plums. How many kilograms of plums are there in total?

2

There are 1000 people at a party. Each person gets 1.2L of juice. How much juice is there in total?

3

A packet of stickers costs £1.50. Pim buys 1000 packets. How much does that cost?

4

Pim ran 1000 laps of 8.2km. How far did he run in total?

5

What is 6.7 multiplied by 1000?

**Step
5****Multiplying by 10**

I can multiply whole numbers and decimals by 1000

Remember to:

- move the digits three places to the left
- remember that this makes the number 1000 times bigger

1

Pim has 1000 boxes. Each box has 2.6kg of plums. How many kilograms of plums are there in total?

There is 2600kg of plums.

2

There are 1000 people at a party. Each person gets 1.2L of juice. How much juice is there in total?

There is 1200L of juice.

3

A packet of stickers costs £1.50. Pim buys 1000 packets. How much does that cost?

It costs £1500.

4

Pim ran 1000 laps of 8.2km. How far did he run in total?

He ran 8200km.

5

What is 6.7 multiplied by 1000?

The answer is 6700.

Step
5

Multiplying by 10

I can multiply whole numbers and decimals by 1000

Repeat!
Repeat!
Repeat!

Revisit!
Revisit!
Revisit!

Real
Life
Maths!

Select

Mastery

1. True or False? If I multiply a number **by 1000**, it will end it **three zeros**.
2. $1000 \times \square < 2000$
3. $7 \times 1000 = (7 \times 10) \times \square$
4. Use a single **5** and the digits **1** and **0** and the **symbol x** as many times as you want to complete the following in as many ways as possible; (e.g. $10 \times 10 \times 50$)
5. $10^3 \times 2.7 = \square$
6. What is the same? What is different? 0.43×1000 and 43×1000
7. $\square = 6 \times 7 \times 1000$

5000 = _____



Question Practice Resources

Question 6 - I understand prime numbers

**Step
4**

Multiple-Factor-Prime

I understand prime numbers

Can you name
prime number less
less than 20?

Example



1 Can you name prime numbers less than 30?

2 Can you name prime numbers less than 8?

3 Can you name prime numbers less than 15?

4 Can you name prime numbers less than 20?

5 Can you name prime numbers less than 50?

6 Can you name prime numbers less than 40?

7 Can you name prime numbers less than 6?

8 Can you name prime numbers less than 18?

9 Can you name prime numbers less than 45?

10 Can you name prime numbers less than 25?

Step
4

Multiple-Factor-Prime

I understand prime numbers

Can you name
prime number less
less than 20?

Example



1 **30** | 2, 3, 5, 7, 11, 13,
17, 19, 23, 29

2 **8** | 2, 3, 5, 7

3 **15** | 2, 3, 5, 7, 11, 13

4 **20** | 2, 3, 5, 7, 11, 13,
17, 19

5 **50** | 2, 3, 5, 7, 11, 13,
17, 19, 23, 29, 31, 37,
41, 43, 47

6 **40** | 2, 3, 5, 7, 11, 13,
17, 19, 23, 29, 31, 37

7 **6** | 2, 3, 5

8 **18** | 2, 3, 5, 7, 11, 13,
17

9 **45** | 2, 3, 5, 7, 11, 13,
17, 19, 23, 29, 31, 37,
41, 43

10 **25** | 2, 3, 5, 7, 11, 13,
17, 19, 23

Step
4

Pom's Words

I understand
Prime NumbersRepeat!
Repeat!
Repeat!Revisit!
Revisit!
Revisit!Real
Life
Maths!

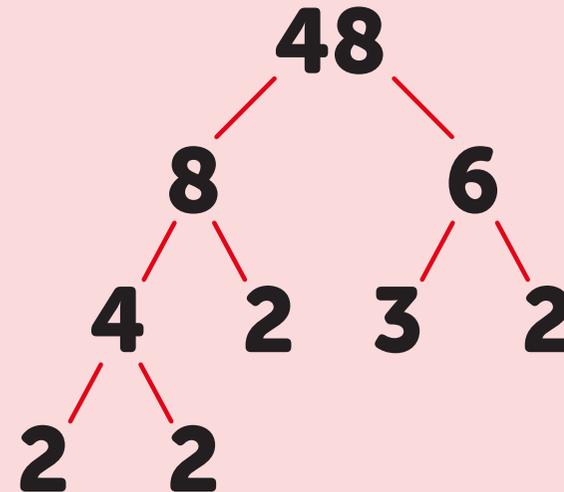
Select

Mastery

1. Are prime numbers **always odd**? Are odd numbers **always prime**?
2. Which numbers in this list are **composite numbers**, which means they are **NOT prime**? 7, 9, 11, 15, 17, 19, 21
3. Can you make a **rectangle** from a prime number of cubes?
4. True or False? For any prime number, the number **one more than** the prime number always has **more factors** than the number **one less than** it. e.g. 23 is prime, 24 has more factors than 22. Prove it!



5. Here are the prime factors of 48. What are the prime factors of 36? What prime factors do they have in common?



$$48 = 2 \times 2 \times 2 \times 2 \times 3$$

Is it possible to find two consecutive prime numbers? Why?

Question Practice Resources

Question 7 - I can solve any additions with 2 decimal places

Remember to:

- add the units
- add the hundredths
- add the tenths
- add the totals

Step
37

Addition

I can solve any additions with
2dp

Remember To:

- add the units
- add the tenths
- add the hundredths
- add the totals

1

$6.82 + 2.16 =$

2

$2.60 + 7.51 =$

3

$4.58 + 5.16 =$

4

$6.50 + 6.59 =$

5

$3.33 + 8.30 =$

6

$5.57 + 4.92 =$

7

$2.64 + 6.82 =$

8

$9.70 + 4.61 =$

9

$4.12 + 7.93 =$

10

$5.19 + 7.62 =$

Step
37

Addition

I can solve any additions with
2dp

Remember To:

- add the units
- add the tenths
- add the hundredths
- add the totals

1

$$6.82 + 2.16 = 8.98$$

2

$$2.60 + 7.51 = 10.11$$

3

$$4.58 + 5.16 = 9.74$$

4

$$6.50 + 6.59 = 13.09$$

5

$$3.33 + 8.30 = 11.63$$

6

$$5.57 + 4.92 = 10.49$$

7

$$2.64 + 6.82 = 9.46$$

8

$$9.70 + 4.61 = 14.31$$

9

$$4.12 + 7.93 = 12.05$$

10

$$5.19 + 7.62 = 12.81$$

Step
37**Addition**

I can solve any additions with
2dp

Remember To:

- add the units
- add the tenths
- add the hundredths
- add the totals

1 $7.63\text{m} + 5.56\text{m} =$

2 $4.76\text{km} + 5.71\text{km} =$

3 $4.58\text{g} + 5.16\text{g} =$

4 $6.50\text{mg} + 6.59\text{mg} =$

5 $6.55\text{ml} + 6.98\text{ml} =$

6 $5.57\text{L} + 4.92\text{L} =$

7 $2.64\text{s} + 6.82\text{s} =$

8 $9.70\text{kg} + 4.61\text{kg} =$

9 $4.12\text{L} + 7.93\text{L} =$

10 $5.19\text{kg} + 7.62\text{kg} =$

Step
37

Addition

I can solve any additions with
2dp

Remember To:

- add the units
- add the tenths
- add the hundredths
- add the totals

$$1 \quad 7.63\text{m} + 5.56\text{m} = \\ 13.19\text{m}$$

$$2 \quad 4.76\text{km} + 5.71\text{km} = \\ 10.47\text{km}$$

$$3 \quad 4.58\text{g} + 5.16\text{g} = \\ 9.74\text{g}$$

$$4 \quad 6.50\text{mg} + 6.59\text{mg} = \\ 13.09\text{mg}$$

$$5 \quad 6.55\text{ml} + 8.30\text{ml} = \\ 14.85\text{ml}$$

$$6 \quad 5.57\text{L} + 4.92\text{L} = \\ 10.49\text{L}$$

$$7 \quad 2.64\text{s} + 6.82\text{s} = 9.46\text{s}$$

$$8 \quad 9.70\text{kg} + 4.61\text{kg} = \\ 14.31\text{kg}$$

$$9 \quad 4.12\text{L} + 7.93\text{L} = \\ 12.05\text{L}$$

$$10 \quad 5.19\text{kg} + 7.62\text{kg} = \\ 12.81\text{kg}$$

Step
37**Addition**

I can solve any additions with
2dp

Remember to:

- add the ones (units)
- add the tenths
- add the hundredths
- add the totals

1

Pim has £8.68 and his friend gives him £7.39 more. How much does Pim have?

2

There are 4.77kg of cherries in one jar and 7.34kg of cherries in another jar. How many kilograms of cherries are there altogether?

3

Pom is 9.13m tall. Pim 9.51m tall. How tall are they together?

4

Pim has 8.99L of lemonade in a jug. He adds 9.42L more. How much liquid is in the jug?

5

What is 7.48 add 3.64?

**Step
37****Addition**

I can solve any additions with
2dp

Remember to:

- add the ones (units)
- add the tenths
- add the hundredths
- add the totals

1

Pim has £8.68 and his friend gives him £7.39 more. How much does Pim have?

Pim has £16.07.

2

There are 4.77kg of cherries in one jar and 7.34kg of cherries in another jar. How many kilograms of cherries are there altogether?

There are 12.11kg of cherries altogether.

3

Pom is 9.13m tall. Pim 9.51m tall. How tall are they together?

They are 18.64m tall together.

4

Pim has 8.99L of lemonade in a jug. He adds 9.42L more. How much liquid is in the jug?

There is 18.41L of lemonade in the jug.

5

What is 7.48 add 3.64?

The answer is 11.12.

Step
37

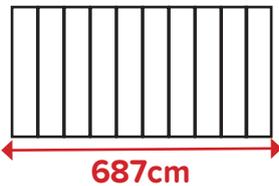
Addition

I can solve any additions with 2dp

Remember To:

- add the ones
- add the hundredths
- add the tenths
- add the totals

1

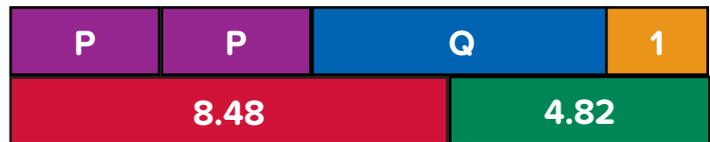


A stack of ten identical boxes are placed on a shelf as shown. The total length of the ten boxes is 687cm. What would be the length of just two boxes?



2

In this picture 'P' and 'Q' represent decimal numbers.
 $Q = 2P$
Find 'P' and 'Q'.



3



A shop prepares twelve bags of apples. The shopkeeper tries to ensure the bags are exactly the same weight. The average bag weight is 0.96kg. To work out the total weight of all twelve bags, Becky completes the table opposite. How does this table help? What is the total weight?

1	0.96 kg
2	?
5	?
10	?

4

Which is the odd one out?

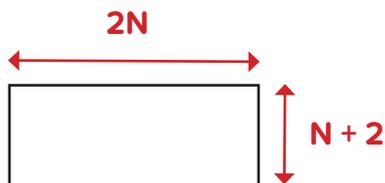
$$2.77L + 4.68L$$

$$\text{Double } 3.725L$$

$$8L - 550ml$$

$$74500ml$$

5



The letter N represents a length of 3.84m.

What is the distance half way around the outside of the rectangle?

Step
37**Addition**

I can solve any additions with
2dp

Remember To:

- add the ones
- add the hundredths
- add the tenths
- add the totals

1

137.4cm

2

$P = 3.075, Q = 6.15$

3

This table helps as those are the easiest values to work out and when she has done that Becky can add the amount for 10 and 2 to give her the weight of 12 bags. The total weight is 11.52Kg.

4

2.77L + 4.68L

Double 3.725L

8L - 550ml

74500ml

5

The distance is 13.52

Question Practice Resources

Question 8 - I subtract numbers with tenths

Remember to:

- draw out the 2 gaps on a number line
- jump to the next whole number
- jump from the next whole number
- add the two jumps

**Step
35****Subtraction**

I can subtract numbers with tenths

Remember To:

- draw out the two gaps on a number line
- jump to the next whole number
- jump from the next whole number
- add the 2 jumps

1 $9.2 - 8.2 =$

2 $3.9 - 1.6 =$

3 $4.7 - 1.7 =$

4 $5.1 - 3.9 =$

5 $8.3 - 7.4 =$

6 $7.6 - 3.9 =$

7 $7.4 - 7.2 =$

8 $3.1 - 2.2 =$

9 $7.3 - 1.5 =$

10 $5.2 - 3.4 =$

Step
35

Subtraction

I can subtract numbers with tenths

Remember To:

- draw out the two gaps on a number line
- jump to the next whole number
- jump from the next whole number
- add the 2 jumps

$$1 \quad 9.2 - 8.2 = 1.0$$

$$2 \quad 3.9 - 1.6 = 2.3$$

$$3 \quad 4.7 - 1.7 = 3.0$$

$$4 \quad 5.1 - 3.9 = 1.2$$

$$5 \quad 8.3 - 7.4 = 0.9$$

$$6 \quad 7.6 - 3.9 = 3.7$$

$$7 \quad 7.4 - 7.2 = 0.2$$

$$8 \quad 3.1 - 2.2 = 0.9$$

$$9 \quad 7.3 - 1.5 = 5.8$$

$$10 \quad 5.2 - 3.4 = 1.8$$

Step
35**Subtraction**

I can subtract numbers with tenths

Remember To:

- draw out the two gaps on a number line
- jump to the next whole number
- jump from the next whole number
- add the 2 jumps

1

$6.9\text{m} - 3.2\text{m} =$

2

$9.8\text{cm} - 8.6\text{cm} =$

3

$5.7\text{km} - 1.7\text{km} =$

4

$6.1\text{g} - 3.9\text{g} =$

5

$9.3\text{mg} - 7.4\text{mg} =$

6

$7.6\text{L} - 3.9\text{L} =$

7

$7.4\text{ml} - 7.2\text{ml} =$

8

$3.1\text{s} - 2.2\text{s} =$

9

$7.3\text{mm} - 1.5\text{mm} =$

10

$5.2\text{kg} - 3.4\text{kg} =$

Step
35

Subtraction

I can subtract numbers with tenths

Remember To:

- draw out the two gaps on a number line
- jump to the next whole number
- jump from the next whole number
- add the 2 jumps

$$1 \quad 6.9\text{m} - 3.2\text{m} = 3.7\text{m}$$

$$2 \quad 9.8\text{cm} - 8.6\text{cm} = 1.2\text{cm}$$

$$3 \quad 5.7\text{km} - 1.7\text{km} = 4.0\text{km}$$

$$4 \quad 6.1\text{g} - 3.9\text{g} = 2.2\text{g}$$

$$5 \quad 9.3\text{mg} - 7.4\text{mg} = 1.9\text{mg}$$

$$6 \quad 7.6\text{L} - 3.9\text{L} = 3.7\text{L}$$

$$7 \quad 7.4\text{ml} - 7.2\text{ml} = 0.2\text{ml}$$

$$8 \quad 3.1\text{s} - 2.2\text{s} = 0.9\text{s}$$

$$9 \quad 7.3\text{mm} - 1.5\text{mm} = 5.8\text{mm}$$

$$10 \quad 5.2\text{kg} - 3.4\text{kg} = 1.8\text{kg}$$

Step
35**Subtraction**

I can subtract numbers with tenths

Remember to:

- draw out the 2 gaps on a number line
- jump to the next whole number
- jump from the next whole number
- add the 2 jumps

1

Pim has 6.7 apples. He gave his friend 5.5 apples. How many apples does Pim have now?

2

Pom made a pile of 8.4 oranges. He took away 2.7 oranges from the pile. How many are in the pile now?

3

Pim puts 7.3kg of sweets on the weighing scales. He took away 5.4kg. What is the weight on the scales?

4

Pim had to run 8.8km. So far he has run 6.2km. What is the total distance he has to go?

5

What is the difference between 5.4 and 2.9?

**Step
35****Subtraction**

I can subtract numbers with tenths

Remember to:

- draw out the 2 gaps on a number line
- jump to the next whole number
- jump from the next whole number
- add the 2 jumps

1

Pim has 6.7 apples. He gave his friend 5.5 apples. How many apples does Pim have now?

Pim now has 1.2 apples.

2

Pom made a pile of 8.4 oranges. He took away 2.7 oranges from the pile. How many are in the pile now?

There are 5.7 oranges in the pile.

3

Pim puts 7.3kg of sweets on the weighing scales. He took away 5.4kg. What is the weight on the scales?

There is 1.9kg on the scales.

4

Pim had to run 8.8km. So far he has run 6.2km. What is the total distance he has to go?

He still has to go 2.6km.

5

What is the difference between 5.4 and 2.9?

The difference is 2.5km.

Step
35

Subtraction

I can subtract numbers with tenths

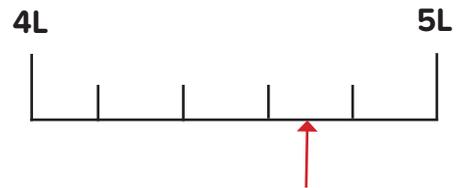
Remember To:

- draw out the 2 gaps on a number line
- jump to the next whole number
- jump from the next whole number
- add the 2 jumps

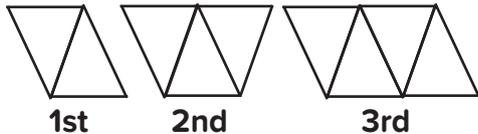
1

Which is the odd one out?

5L - 300ml
8.3L - 3.6L
Double 2375ml



2



Here are the first three shapes in a 'growing pattern'. Each isosceles triangle has sides of lengths 3.5cm, 5.8cm and 5.8cm. Ali says the perimeter of each pattern always increases by the same amount. Do you agree or disagree?

3

What is the length of the purple rectangle in this picture?



4

The total weight of two parcels is 7.8kg. One parcel is 1.2kg heavier than the other parcel. What are the weights of the two parcels?



5



The length of this rectangle is three times its width. If the letter 'n' represents the width of the rectangle, explain why the perimeter would be represented by '8n'. If the perimeter of the rectangle is 44cm, then how much longer is the length than the width?

Step
35

Subtraction

I can subtract numbers with tenths

Remember To:

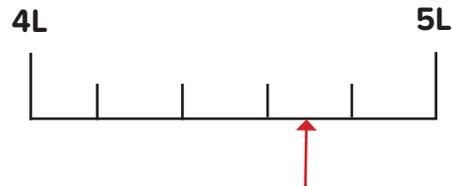
- draw out the 2 gaps on a number line
- jump to the next whole number
- jump from the next whole number
- add the 2 jumps

1

$$5\text{L} - 300\text{ml}$$

$$8.3\text{L} - 3.6\text{L}$$

Double 2375ml



2

I agree as the perimeter of the pattern will always increase by 9.3cm.

3

The length of the purple rectangle is 1.4m

4

One parcel weighs 5.1kg and the other parcel weighs 2.7kg

5

The length of the rectangle is $3n$. The width of the rectangle is $1n$. The formula for perimeter is $2(L + W)$. Therefore the perimeter is $3n + 3n + 1n + 1n$ which equals $8n$. If the perimeter is 44cm, then $n = 5.5\text{cm}$. The length = 16.5cm. The length is 11cm longer than the width.

Question Practice Resources

Question 9 - I can combine 2 or more Coin Facts to solve division

Remember to:

- write out your full Coin Card for 2d number
- add coin pieces until you have found the target number
- find the total amount of 'lots of' used

**Step
30****Division**

I can combine 2 or more Coin Facts to solve division

Remember To:

- write out your full Coin Card for a 2d number
- add coin pieces until you have found the target number
- find the total amount of 'lots of' used

1 $308 \div 14 =$

2 $360 \div 30 =$

3 $280 \div 70 =$

4 $490 \div 70 =$

5 $396 \div 36 =$

6 $912 \div 76 =$

7 $238 \div 14 =$

8 $540 \div 90 =$

9 $84 \div 14 =$

10 $455 \div 65 =$

Step
30

Division

I can combine 2 or more Coin Facts to solve division

Remember To:

- write out your full Coin Card for a 2d number
- add coin pieces until you have found the target number
- find the total amount of 'lots of' used

$$1 \quad 308 \div 14 = 22$$

$$2 \quad 360 \div 30 = 12$$

$$3 \quad 280 \div 70 = 4$$

$$4 \quad 490 \div 70 = 7$$

$$5 \quad 396 \div 36 = 11$$

$$6 \quad 912 \div 76 = 12$$

$$7 \quad 238 \div 14 = 17$$

$$8 \quad 540 \div 90 = 6$$

$$9 \quad 84 \div 14 = 6$$

$$10 \quad 455 \div 65 = 7$$

**Step
30****Division**

I can combine 2 or more Coin Facts to solve division

Remember To:

- write out your full Coin Card for a 2d number
- add coin pieces until you have found the target number
- find the total amount of 'lots of' used

1 $308\text{m} \div 14 =$

2 $360\text{cm} \div 30 =$

3 $490\text{km} \div 70 =$

4 $490\text{g} \div 70 =$

5 $396\text{mg} \div 36 =$

6 $912\text{L} \div 76 =$

7 $210\text{ml} \div 14 =$

8 $540\text{s} \div 90 =$

9 $84\text{mm} \div 14 =$

10 $455\text{kg} \div 65 =$

Step
30

Division

I can combine 2 or more Coin Facts to solve division

Remember To:

- write out your full Coin Card for a 2d number
- add coin pieces until you have found the target number
- find the total amount of 'lots of' used

$$1 \quad 308\text{m} \div 14 = 22\text{m}$$

$$2 \quad 360\text{cm} \div 30 = 12\text{cm}$$

$$3 \quad 490\text{km} \div 70 = 7\text{km}$$

$$4 \quad 490\text{g} \div 70 = 7\text{g}$$

$$5 \quad 396\text{mg} \div 36 = 11\text{mg}$$

$$6 \quad 912\text{L} \div 76 = 12\text{L}$$

$$7 \quad 210\text{ml} \div 14 = 15\text{ml}$$

$$8 \quad 540\text{s} \div 90 = 6\text{s}$$

$$9 \quad 84\text{mm} \div 14 = 6\text{mm}$$

$$10 \quad 455\text{kg} \div 65 = 7\text{kg}$$

**Step
30****Division**

I can combine 2 or more Coin Facts to solve division

Remember to:

- write out your full Coin Card for 2d number
- add coin pieces until you have found the target number
- find the total amount of 'lots of' used

1

Pim has 384 oranges. He shared them between 32 people. How many oranges did each person get?

2

Pom has 450 potatoes. He puts them into 18 boxes. How many potatoes are in each box?

3

A book costs £28. Speedy Col has £1596. How many books can she buy?

4

Mully has a jug containing 560ml of Coca Cola. He pours it into 7 cups. How much liquid is in each cup?

5

What is 1222 shared by 47?

**Step
30****Division**

I can combine 2 or more Coin Facts to solve division

Remember to:

- write out your full Coin Card for 2d number
- add coin pieces until you have found the target number
- find the total amount of 'lots of' used

1

Pim has 384 oranges. He shared them between 32 people. How many oranges did each person get?

Each person gets 12 oranges.

2

Pom has 450 potatoes. He puts them into 18 boxes. How many potatoes are in each box?

Each box contains 25 potatoes.

3

A book costs £28. Speedy Col has £1596. How many books can she buy?

She can buy 57 books.

4

Mully has a jug containing 560ml of Coca Cola. He pours it into 7 cups. How much liquid is in each cup?

Each cup contains 80ml of Coca Cola.

5

What is 1222 shared by 47?

The answer is 26.

Step
30

Division

I can combine 2 or more Coin Facts to solve division

Remember To:

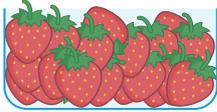
- write out your full Coin Card for 2d number
- add coin pieces until you have found the target number
- find the total amount of 'lots of' used

1

Cup cakes come in two different sizes. The large size is 20p more expensive than the small size. I could buy five large cup cakes for £2.30. I spend £3.90 on small cup cakes. How many small cup cakes did I buy?



2



The average weight of a large strawberry is 18g. A box of large strawberries weighs 450g. How many strawberries are likely to be in the box?

3

Three regular hexagons are joined to make the shape shown here. The perimeter of this shape is 210cm. What is the length of the sides of the regular hexagons?



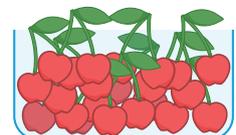
4

What is the missing number, shown by the letter n?

$$864 \div 27 = \frac{2}{3} \text{ of } n$$

5

A shop is selling boxes of cherries. It has sixteen boxes left. The shopkeeper estimates that the total number of cherries in all the boxes is 560! How many cherries would you expect to be in three boxes?



Step
30**Division**

I can combine 2 or more Coin Facts to solve division

Remember To:

- write out your full Coin Card for 2d number
- add coin pieces until you have found the target number
- find the total amount of 'lots of' used

1

I bought five cup cakes.

2

There is likely to be 25 strawberries in the box.

3

The length of the sides is 15cm.

4

$$n = 48$$

5

105 cherries

Question Practice Resources

Question 10 - I can solve any 5 digit + 5 digit

**Step
10**

**Addition
Column Methods**

I can solve any $5d + 5d$

Example

$$\begin{array}{r} 81686 \\ + 66549 \\ \hline 148235 \\ \hline 111 \end{array}$$

1 $75677 + 94522$

2 $35136 + 63321$

3 $25621 + 89134$

4 $71431 + 53871$

5 $55890 + 45232$

6 $47655 + 68241$

7 $90012 + 96421$

8 $78286 + 16168$

9 $67431 + 32461$

10 $66212 + 30429$

Step
10Addition
Column MethodsI can solve any $5d + 5d$

Example

$$\begin{array}{r} 81686 \\ + 66549 \\ \hline 148235 \\ \hline 111 \end{array}$$

$$1 \quad 75677 + 94522 = 170199$$

$$2 \quad 35136 + 63321 = 98457$$

$$3 \quad 25621 + 89134 = 114755$$

$$4 \quad 71431 + 53871 = 125302$$

$$5 \quad 55890 + 45232 = 101122$$

$$6 \quad 47655 + 68241 = 115896$$

$$7 \quad 90012 + 96421 = 186433$$

$$8 \quad 78286 + 16168 = 94454$$

$$9 \quad 67431 + 32461 = 99892$$

$$10 \quad 66212 + 30429 = 96641$$