

Our Maths Learning Journey

Key vocabulary:

1 more than

1 less than

Tens

Ones

Compare

Greater than, less than, fewer, equal to

Addition, add

Subtraction, subtract, take away

Fact family

2D shapes

3D shapes

Comparing 2D and 3D shapes.

Comparing the properties of
2D and 3D shapes.

Subtracting tens and ones
Addition-Subtraction fact family
Naming 2D and 3D shapes.

Add by making 10
Subtract ones from a 2-digit number
Subtracting tens and ones.

Comparing numbers of objects
Ordering numbers
Add by making 10

Partitioning (tens and ones)
Number bonds to 20.

Counting
forwards/backwards and 1
more/ 1 less within 20.

1 less than within 20
Partitioning (tens and ones)

Monday 1st December 2025



3 Complete the additions.

| | | | | | |
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a) $6 + 5 = \square$

b) $8 + 5 = \square$

c) $9 + 5 = \square$

d) $\square = 7 + 5$

I can use these to make 10.

CHALLENGE



We need to break up 5 for each one.



L.Q. Can I explore numbers to 20?

<https://www.topmarks.co.uk/learning-to-count/helicopter-rescue>



HELICOPTER RESCUE

Find a Number Count On & Back

Find a Number

| Direct | In Between |
|----------|------------|
| 1 to 10 | 1 to 10 |
| 1 to 20 | 1 to 20 |
| 1 to 30 | 1 to 30 |
| 1 to 50 | 1 to 50 |
| 1 to 100 | 1 to 100 |

Try our 1 more or less & 10 more or less game:

CHOPPER SQUAD

Topmarks

The image shows a digital game interface for 'Helicopter Rescue' on a blue background. On the left is a red helicopter with a white cross on its side. To the right of the helicopter are two columns of red buttons for selecting number ranges. At the top right of the interface is a close button (an 'X' in a circle). At the bottom left is a button for 'CHOPPER SQUAD' and at the bottom right is the 'Topmarks' logo.

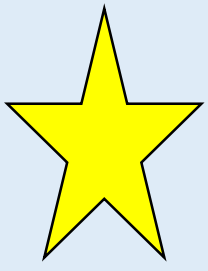


L.Q. Can I subtract tens and ones?

Steps to success

- I can subtract tens and ones*
- I understand to subtract $15 - 12$ it is easier to subtract 10 and then 2 ones*
- I can see the connections with number bonds and use this to help them solve subtractions quickly, such as $18 - 1$ and $8 - 1$.*



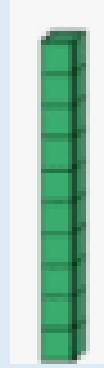


Star words

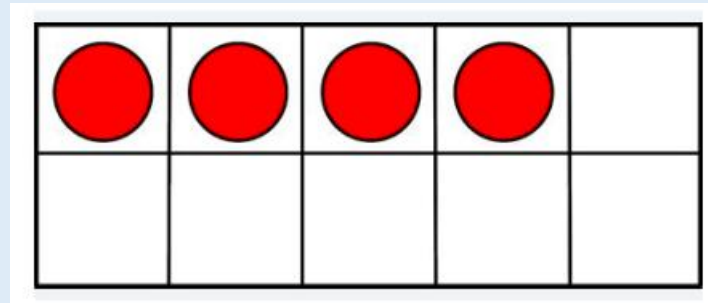


subtract

tens



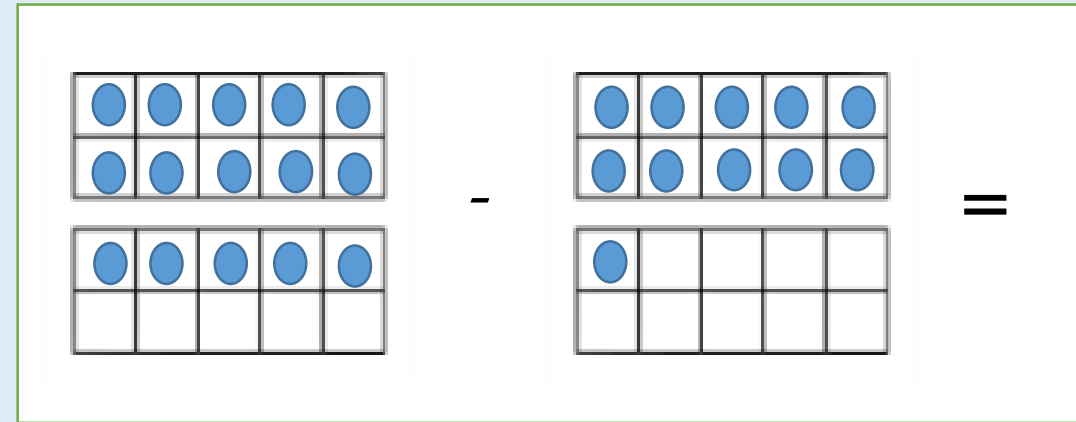
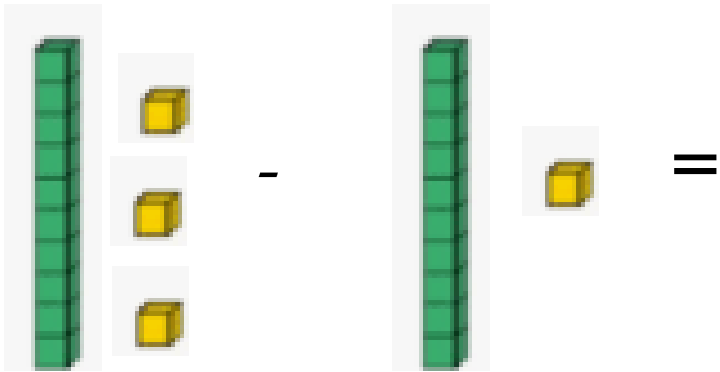
Tens frame



ones



Today we are going to practise everything we have learnt
when subtracting tens and ones.



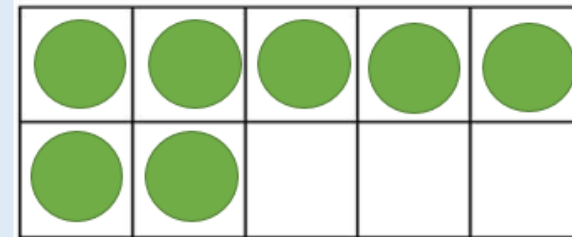
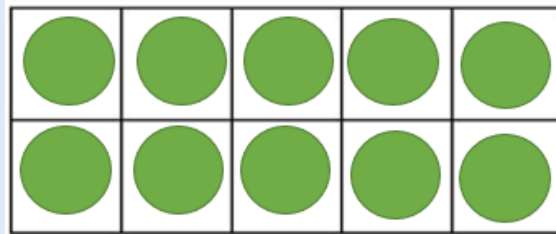
$$20 - 2 = 18$$

Let's work it out together.

Children to use whiteboards to practice.



Charlotte has 17 balloons. 15 balloons fly away. How many does she have left?



TP: We need to subtract the _____ number.

TP: _____ - _____ = _____

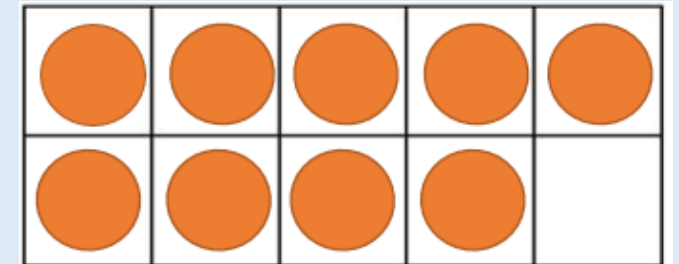
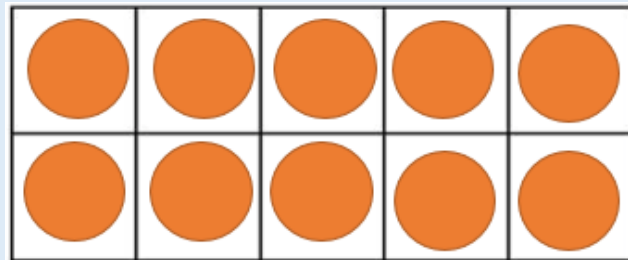
L.Q. Can I subtract tens and ones?

Let's work it out together.

Children to use whiteboards to practice.



Supertato has 19 apples. He gives 11 apples to his friends. How many apples does Supertato have now?



TP: First we need to subtract the

_____.

TP: _____ - _____ = _____

L.Q. Can I subtract tens and ones?

Let's practise together...

Children to use whiteboards to practice.

Evil Pea captures 13 carrots.
He gives 11 carrots back. How
many carrots does Evil Pea
have now?



TP: We need to subtract the _____
number.

TP: _____ - _____ = _____

Self assessment

Do you understand what number to
subtract?





Your task



★ ten frame, number line, subtract, take away, left, tens, ones ★

| | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| <p>1. Subtract by crossing off the tens and ones and complete the number sentences.</p> <p>15 - 12 = 19 - 13 = 20 - 14 = 16 - 11 =</p> | <p>2. Tom says, My number sentence is correct.</p> <div style="border: 1px solid black; border-radius: 15px; padding: 5px; width: fit-content; margin: 10px auto;"> $13 - 17 =$ </div> <p>Do you agree?</p> <p><i>Sentence starter:</i> Yes, I agree because... No, I disagree because...</p> | <p>3. Max has 18 balloons. 13 of the balloons burst. How many balloons does Max have left?</p> <p>Draw counters and use the crossing off method to solve the problem.</p> <p style="text-align: center;">18 - ____ =</p> <div style="display: flex; flex-direction: column; align-items: center;"> <table border="1" style="border-collapse: collapse; margin-bottom: 5px;"> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table> <table border="1" style="border-collapse: collapse;"> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table> </div> | | | | | | | | | | | | | | | | | | | | |
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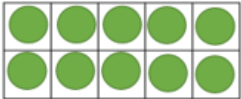
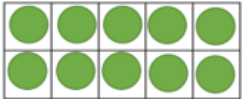
1.

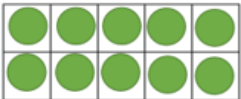

15 - 12 =

19 - 13 =

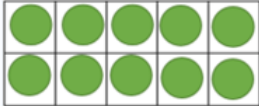
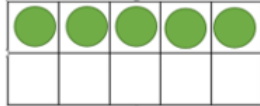
20 - 14 =

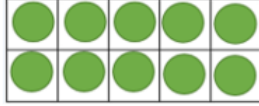
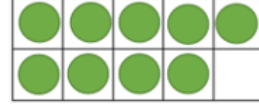
16 - 11 =

| | | | | | | | |
|---|--|---|----|--|---|---|---|
| <p>04.12.2023</p> <p>L.Q. Can I subtract tens and ones?</p> | <table border="1" style="border-collapse: collapse; margin: 0 auto;"> <tr> <td style="width: 33%;">I</td> <td style="width: 33%;">WS</td> <td style="width: 33%;"></td> </tr> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> <td style="text-align: center;">3</td> </tr> </table> | I | WS | | 1 | 2 | 3 |
| I | WS | | | | | | |
| 1 | 2 | 3 | | | | | |

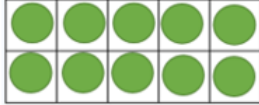
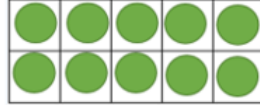
Today we worked in a small group with an adult to subtract tens and ones by bridging ten. We used the crossing off method to subtract.

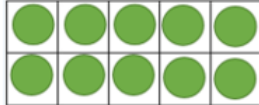

15 - 12 =

19 - 13 =




20 - 14 =

16 - 11 =

Self assessment

Do you understand the tasks?

Tuesday 2nd December 2025

L.Q. Can I make bond to 10?

<https://www.topmarks.co.uk/maths-games/hit-the-button>

The image shows a screenshot of the 'Hit the Button' game interface. At the top, a dark blue header displays the equation 10×12 in large yellow text. To the left of the equation is a 'Menu' button, and to the right is a close button (an 'x' in a white circle). Below the header is a 3x4 grid of orange circular buttons containing the following numbers: Row 1: 36, 48, 24, 12; Row 2: 72, 96, 60, 84; Row 3: 144, 108, 132, 120. The buttons are connected by horizontal and vertical grey lines. To the right of the grid are two circular buttons: a green one at the top and a red one at the bottom. At the bottom of the screen, a dark blue footer contains the text 'Times Tables up to 12' and 'Hit the Answer 12 x Table' on the left, 'Timer: 0:48' and 'Score: 4/4' in the center, and the 'Topmarks' logo on the right.

| | | | |
|-----|-----|-----|-----|
| 36 | 48 | 24 | 12 |
| 72 | 96 | 60 | 84 |
| 144 | 108 | 132 | 120 |

Times Tables up to 12
Hit the Answer 12 x Table

Timer: 0:48 Score: 4/4

Topmarks



LQ: Can I recall addition and subtraction facts?

Steps to success

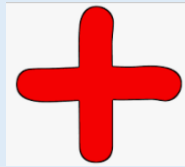
- *I can add and subtract within 20*
- *I can understand the relationship between addition and subtraction*
- *I can link this to fact families*



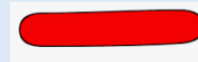


Star words

add/addition



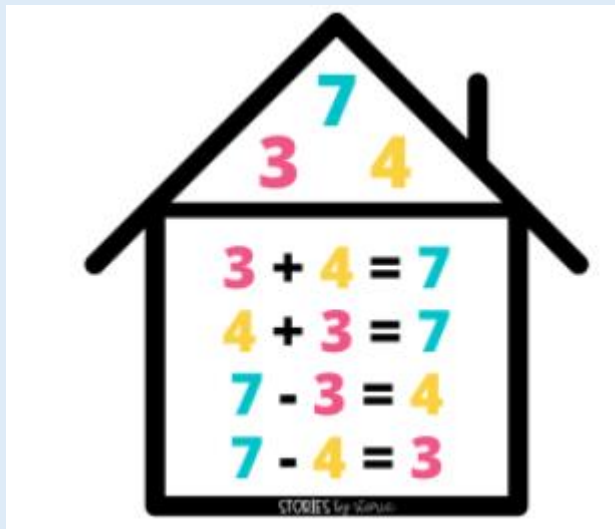
subtract



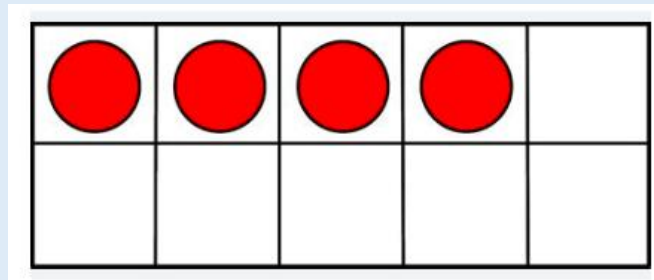
number sentence

$$\begin{array}{l}
 13 + 6 = 19 \\
 19 - 6 = 13 \\
 19 - 13 = 6
 \end{array}$$

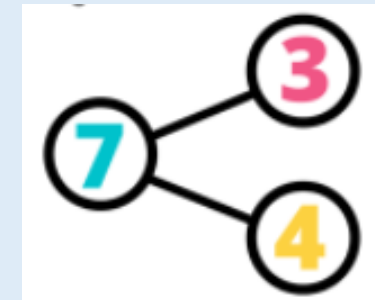
fact family



ten frame



part whole model



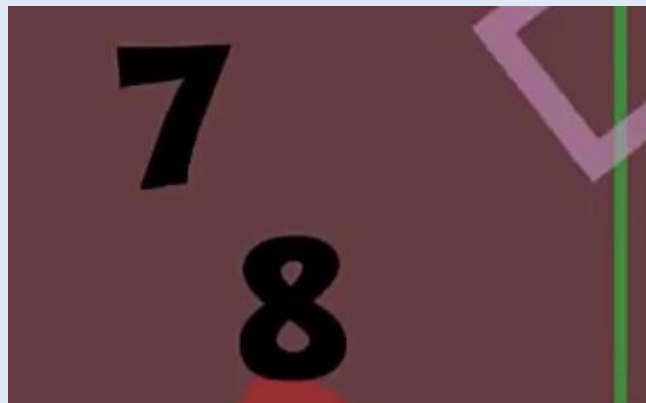
Today we are going to practice making addition and subtraction fact families.

A **fact family** is a group of maths facts that use the same numbers.

A **fact family** in maths can show the relationship between addition and subtraction.

Let's listen to the fact family song.

https://www.youtube.com/watch?v=yal175kp-zQ&list=RDQMsQBIIJZwgZSQ&start_radio=1



Each fact family has **three** numbers. We use the same **three** numbers to make **four** number sentences, **two addition** sentences and **two subtraction** sentences.

Addition and subtraction are **inverse operations** (opposite).

With addition we can swap the **first** and **second** numerals to work out the total.

$$\begin{array}{l} 3 + 12 = 15 \\ 12 + 3 = 15 \end{array}$$

With subtraction you cannot swap the numbers. You have to start with the **largest** numeral and subtract the **smaller** numbers to work out the total.

$$\begin{array}{l} 15 - 12 = 3 \\ 15 - 3 = 12 \end{array}$$

I can use 3, 12 and 15 to make a family.

3 12 15

$$3 + 12 = 15$$

$$12 + 3 = 15$$

$$15 - 12 = 3$$

$$15 - 3 = 12$$

Remember, for addition number sentences we can swap the two smaller numbers around to make the greatest number.

Remember, for subtraction number sentences we need to start with the greatest number and subtract the smaller numbers.

LQ: Can I recall addition and subtraction facts?

8

10

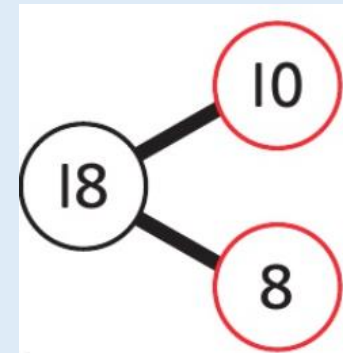


18 in total

How many fingers are the children holding up?

We can write:

$$8 + 10 = 18 \text{ or } 10 + 8 = 18$$



We can use the same three numbers to write the subtraction facts:

$$18 - 10 = 8 \text{ or } 18 - 8 = 10$$

LQ: Can I recall addition and subtraction facts?

There are **20** counters in a box.

12 of the counters are **red**.

The rest are **yellow**.

How many **yellow** counters are in the box?

Complete the ten frame and part whole model.

The image shows two ten frames. The first ten frame is a 2x5 grid filled with 12 red circular counters. The second ten frame is a 2x5 grid with 2 red circular counters in the top-left cells and 8 empty cells. To the right is a part-whole model with a top circle containing the number 20, and two bottom circles: the left one contains 12 and the right one is empty.

$$12 + \square = 20$$

TPs: There are _____ yellow counters.

Let's practice making the fact family using the three numbers.

$$\square + \square = \square$$

$$\square + \square = \square$$

$$\square - \square = \square$$

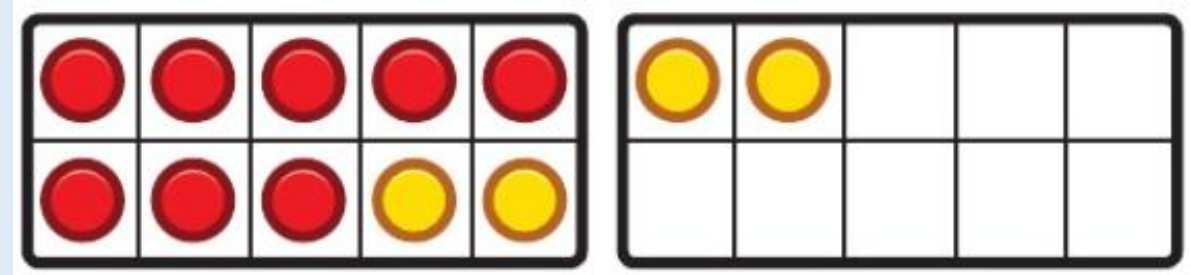
$$\square - \square = \square$$

Children to use whiteboards to practice.

LQ: Can I recall addition and subtraction facts?

There are 8 red counters and 4 yellow counters.

How many counters are there altogether?



Let's practice making the fact family using the three numbers.

$$\square + \square = \square$$

$$\square + \square = \square$$

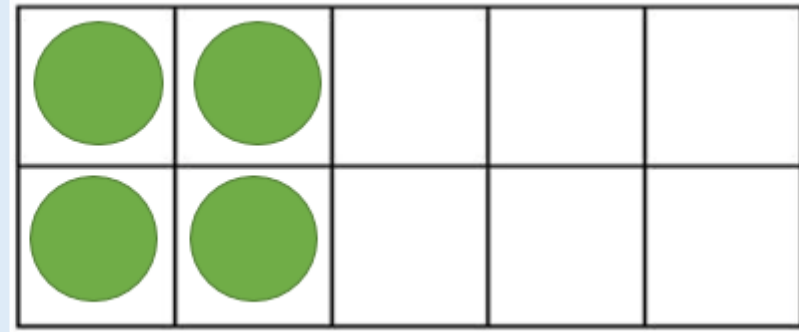
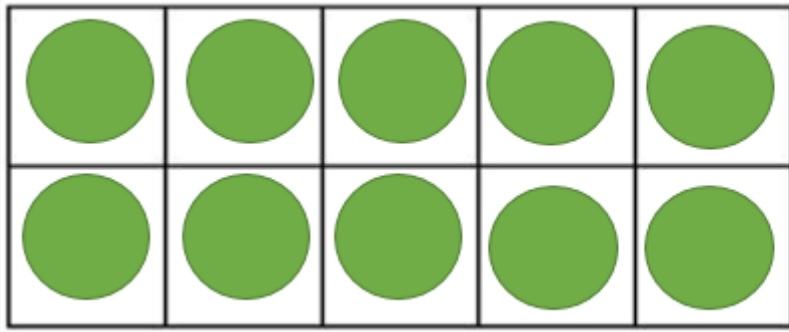
$$\square - \square = \square$$

$$\square - \square = \square$$

Children to use whiteboards to practice.

LQ: Can I recall addition and subtraction facts?

Let's complete the fact families together.



Draw the missing counters to work out the missing number for the addition.

$$14 + \square = 20$$

$$\square + \square = 20$$

$$\square - \square = \square$$

$$\square - \square = \square$$

Children to use whiteboards to practice.

Self assessment

Do you understand how to find addition and subtraction facts?



Let's complete the fact families together.
Add the two smaller numbers first.

+

14

8

6

+ =

+ =

- =

- =

Draw the counter for the smaller numbers in two colours.

| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | |
| | | | | | | | | | |

Children to use whiteboards to practice.

Let's complete the fact families together.
Add the two smaller numbers first.

$+$ 17 $-$

12 5

$+$ $=$

$+$ $=$

$-$ $=$

$-$ $=$

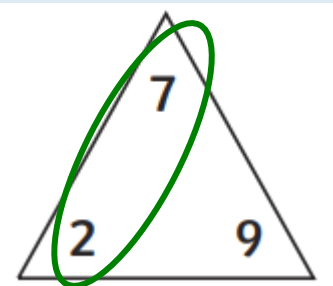
Draw the counter for the smaller numbers in two colours.

| | | | | | | | | | |
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| | | | | | | | | | |

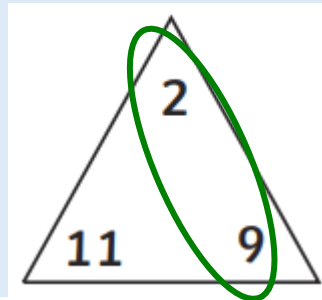
Children to use whiteboards to practice.

Your task

Use the sets of numbers to practice making related facts for addition and subtraction.
Remember, you need to add the **2 smaller numbers** to make the **greatest number**.



| | | | | |
|----------------------|---|----------------------|---|----------------------|
| <input type="text"/> | + | <input type="text"/> | = | <input type="text"/> |
| <input type="text"/> | + | <input type="text"/> | = | <input type="text"/> |
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| <input type="text"/> | - | <input type="text"/> | = | <input type="text"/> |

Self assessment

Do you understand the tasks?



Wednesday 3rd December 2025

L.Q. Can I make bond to 10?

<https://www.topmarks.co.uk/maths-games/hit-the-button>

The screenshot shows the 'Hit the Button' game interface for the 12x table. The title is 10×12 . The game board consists of a 3x4 grid of orange buttons with the following numbers:

| | | | |
|-----|-----|-----|-----|
| 36 | 48 | 24 | 12 |
| 72 | 96 | 60 | 84 |
| 144 | 108 | 132 | 120 |

At the bottom, the text reads: "Times Tables up to 12", "Hit the Answer 12 x Table", "Timer: 0:48", "Score: 4/4", and the Topmarks logo.



LQ: Can I recall addition and subtraction facts families?

Steps to success

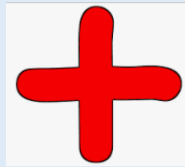
- I can add and subtract within 20*
- I can understand the relationship between addition and subtraction*
- I can link this to fact families*



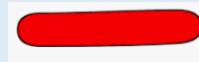


Star words

add/addition



subtract



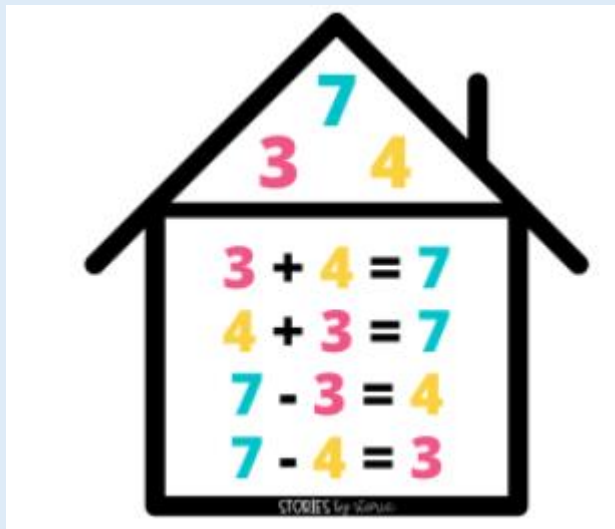
number sentence

$$13 + 6 = 19$$

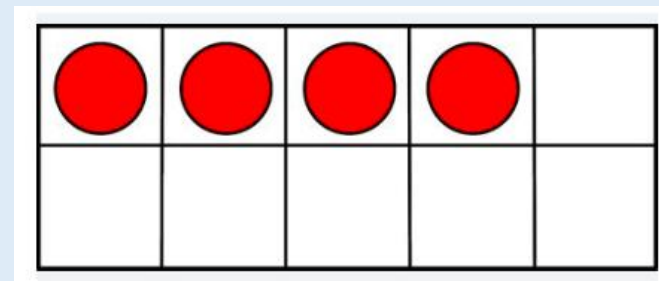
$$19 - 6 = 13$$

$$19 - 13 = 6$$

fact family



ten frame

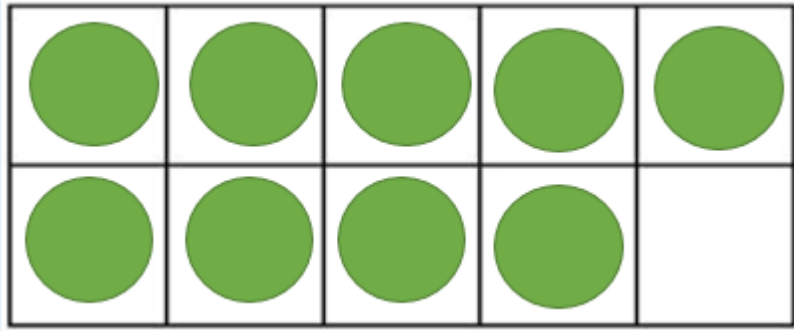
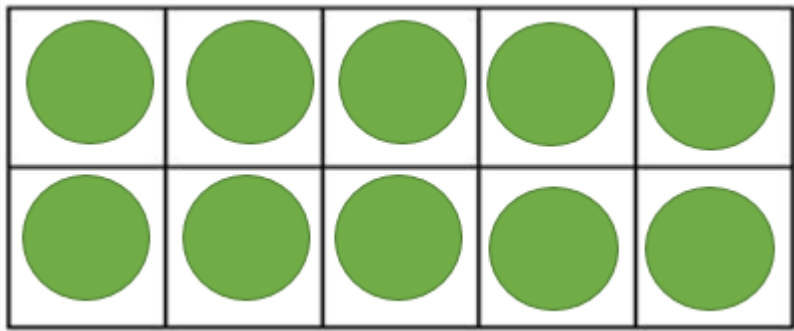


Today we are going to continue with making addition and subtraction fact families.

TP: What is a fact family?

A **fact family** is a group of maths facts that use the same numbers.

Let's complete the fact families together.



Draw the missing counter to work out the missing number for the addition.

$$19 + \square = 20$$
$$\square + 19 = 20$$
$$20 - \square = \square$$
$$20 - \square = \square$$

Children to use whiteboards to practice.

Let's complete the fact families together.
Add the two smaller numbers first.

$+$ 20 $-$

18 2

+ =

+ =

- =

- =

Draw the counter for the smaller numbers in two colours.

| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | |
| | | | | | | | | | |

Children to use whiteboards to practice.

Let's complete the fact families together.
Add the two smaller numbers first.

$+$ 15 $-$

7 8

+ =

+ =

- =

- =

Draw the counter for the smaller numbers in two colours.

| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | |
| | | | | | | | | | |

Children to use whiteboards to practice.

Let's complete the fact families together.
Add the two smaller numbers first.

$\square + \square = \square$
 $\square + \square = \square$
 $\square - \square = \square$
 $\square - \square = \square$

Draw the counter for the smaller numbers in two colours.

| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | |
| | | | | | | | | | |

Children to use whiteboards to practice.

Self assessment
Do you understand how to work out the related facts for addition and subtraction?



Your task

Number Families

12

9 3

+ =

+ =

- =

- =

7

10 3

+ =

+ =

- =

- =

8

2 10

+ =

+ =

- =

- =

2

11 9

+ =

+ =

- =

- =

Addition and Subtraction Fact Families to 20

For each set of numbers, write four different addition and subtraction facts.

15

4 11

+ =

+ =

- =

- =

18

5 13

+ =

+ =

- =

- =

20

4 16

+ =

+ =

- =

- =

13

6 7

+ =

+ =

- =

- =

03.12.24 – 04.12.24

LQ: Can I recall addition and subtraction facts?

03.12.24

Today we worked as a class to practise making fact families using our prior knowledge of addition and subtraction. We discussed how addition and subtraction are linked and we used this information to help us with making related facts. Our adult gave us a set of numbers and we worked together to write the related facts, remembering with addition we can swap the two smaller numbers whereas with subtraction we cannot.

04.12.24

Today we recapped making related facts for addition and subtraction and discussed the connection between them. Then we practised writing related facts for given sets of numbers using our prior skills from yesterday's lesson.

Self assessment

Do you understand the tasks?



Thursday 4th December 2025-
Pantomime and Church Trip

Friday 5th December 2025



LQ: Can I recall addition and subtraction facts families?

Steps to success

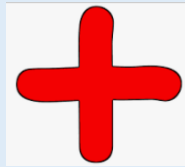
- I can add and subtract within 20*
- I can understand the relationship between addition and subtraction*
- I can link this to fact families*



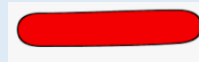


Star words

add/addition



subtract



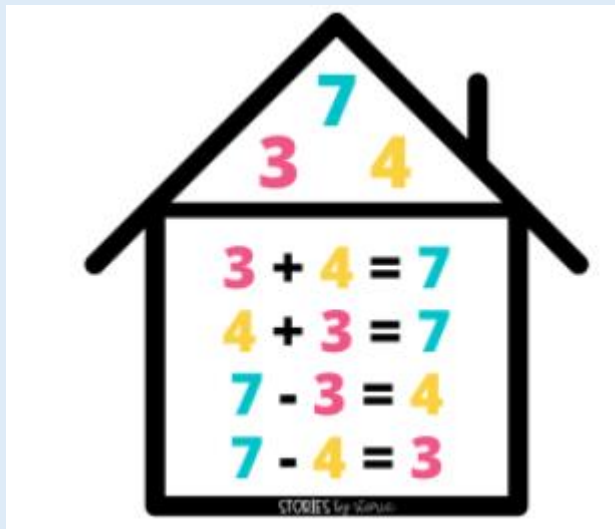
number sentence

$$13 + 6 = 19$$

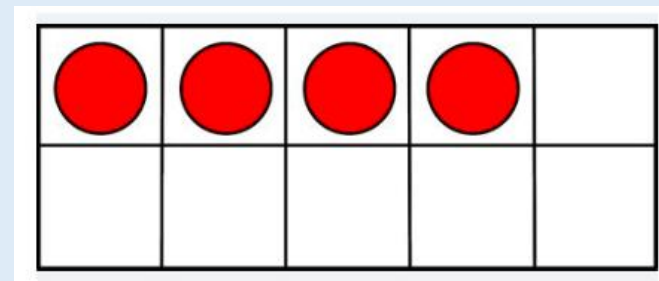
$$19 - 6 = 13$$

$$19 - 13 = 6$$

fact family



ten frame



Today we are going to continue with making addition and subtraction fact families.

TP: What is a fact family?

A **fact family** is a group of maths facts that use the same numbers.

Let's complete the fact families together.

A house-shaped diagram with a teal roof and a white body. The roof contains the number 18 in a white box. The left side of the roof contains the number 6 in a white box, and the right side contains the number 12 in a white box. To the left of the roof is a green plus sign, and to the right is a purple minus sign. The body of the house contains four rows of empty boxes for equations: two addition rows and two subtraction rows.

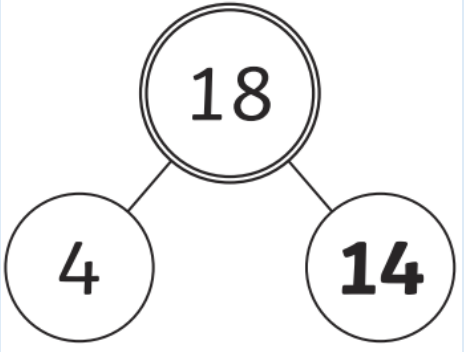
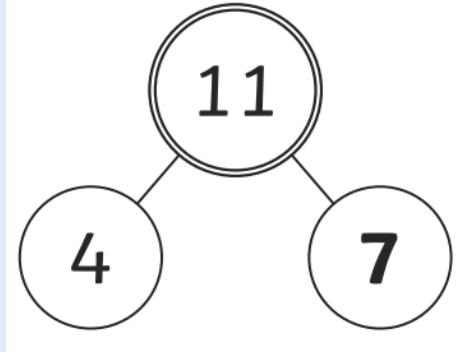
$\square + \square = \square$
 $\square + \square = \square$
 $\square - \square = \square$
 $\square - \square = \square$

A house-shaped diagram with a light green roof and a white body. The roof contains the number 17 in a white box. The left side of the roof contains the number 12 in a white box, and the right side contains the number 5 in a white box. To the left of the roof is a green plus sign, and to the right is a purple minus sign. The body of the house contains four rows of empty boxes for equations: two addition rows and two subtraction rows.

$\square + \square = \square$
 $\square + \square = \square$
 $\square - \square = \square$
 $\square - \square = \square$

Children to use whiteboards to practice.

Let's complete the fact families together.



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Children to use whiteboards to practice.

Your task

★
fact family, addition, add, subtraction, total, left
★

| | | |
|---|--|--|
| <p>1. Complete the fact family for the given sets of numbers.</p> | <p>2. Chloe says she has correctly completed the subtraction facts.</p> <div style="text-align: center;"> $11 - 7 = 4$ $11 - 4 = 7$ </div> <p>Do you agree?</p> <p><i>Sentence starter:</i> Yes, I agree because... No, I disagree because...</p> | <p>3. Complete the part whole model to help you complete the fact family.</p> <div style="text-align: center;"> </div> <div style="text-align: center;"> $\square + \square = \square$ $\square + \square = \square$ $\square - \square = \square$ $\square - \square = \square$ </div> |
|---|--|--|

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| <p>1.</p> <div style="text-align: center;"> </div> <div style="text-align: center;"> $\square + \square = \square$ $\square + \square = \square$ $\square - \square = \square$ $\square - \square = \square$ </div> | <div style="text-align: center;"> </div> <div style="text-align: center;"> $\square + \square = \square$ $\square + \square = \square$ $\square - \square = \square$ $\square - \square = \square$ </div> | <div style="text-align: center;"> </div> <div style="text-align: center;"> $\square + \square = \square$ $\square + \square = \square$ $\square - \square = \square$ $\square - \square = \square$ </div> |
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Today we worked with an adult to make related facts for addition using manipulatives to help us completed the addition facts. We made the two groups and combined the objects together to work out the total. Then we swapped the groups around to add and found out that the total remained the same. As a challenge we used this information to practise finding related facts for subtraction.

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Self assessment

Do you understand the tasks?