

Learning Reminders

Choose appropriate methods to subtract 4-digit numbers.

We can use either expanded or column subtraction to find $8848 - 453$.

$$\begin{array}{r} 700 \ 140 \\ 8000 \ ~~800~~ \ ~~40~~ \ 8 \\ - \quad \quad 400 \ 50 \ 3 \\ \hline 8000 \ 300 \ 90 \ 5 \\ 8000 + 300 + 90 + 5 = 8395. \end{array}$$

$$\begin{array}{r} 7 \ 14 \\ 8 \ ~~8~~ \ ~~4~~ \ 8 \\ - \quad 4 \ 5 \ 3 \\ \hline 8 \ 3 \ 9 \ 5 \end{array}$$

We need to take care to line up the 100s, 10s and 1s as there are no 1000s to subtract.

Learning Reminders

Choose appropriate methods to subtract 4-digit numbers.

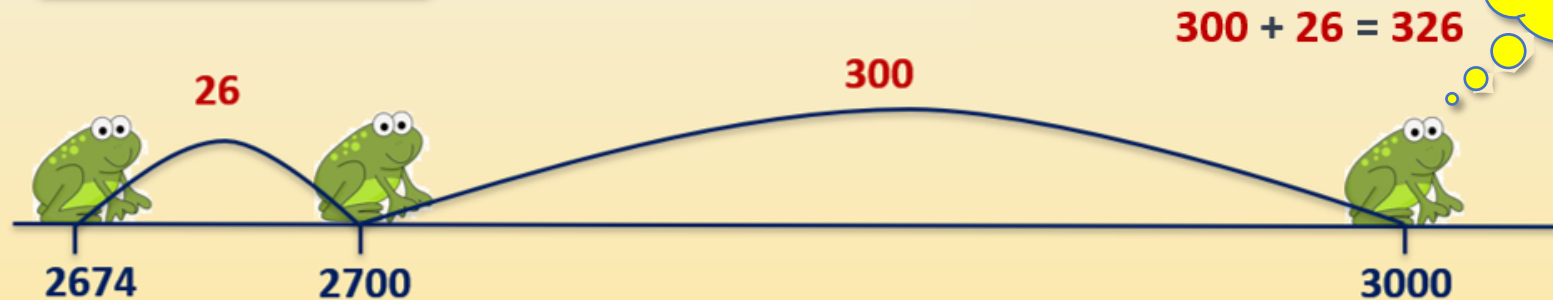
$$3000 - 2674$$

$$\begin{array}{r} 99 \\ 2\cancel{10}\cancel{10} \\ \cancel{3}\cancel{0}\cancel{0} \\ - 2674 \\ \hline 326 \end{array}$$

Column subtraction gets very tricky if there are lots of zeros in the larger number. Look at all of the column exchanges!

Frog can solve $3000 - 2674$ in just 2 jumps!

'Much easier!'



Practice Sheet Mild

Frog or column subtraction?

Choose to use either Frog (counting up) or column subtraction to solve the following, aiming to use the more efficient method for each.

1. $4002 - 3856$

2. $9357 - 264$

3. $7200 - 6934$

4. $8015 - 7943$

5. $8734 - 562$

6. $4721 - 438$

7. $6023 - 5794$

8. $7475 - 621$

Practice Sheet Hot

Frog or column subtraction?

Choose to use either Frog (counting up) or column subtraction to solve the following, aiming to use the more efficient method for each.

1. $9124 - 8967$

2. $5235 - 4879$

3. $6383 - 526$

4. $8342 - 578$

5. $8250 - 6789$

6. $6135 - 456$

7. $6058 - 5345$

8. $5224 - 461$

Do you think you chose the more efficient strategy for each subtraction? You could repeat any you're not sure about, using the other method...

Practice Sheets Answers

Frog or column subtraction? (mild)

1. $4002 - 3856 = 146$
2. $9357 - 264 = 9093$
3. $7200 - 6934 = 266$
4. $8015 - 7943 = 72$
5. $8734 - 562 = 8712$
6. $4721 - 438 = 4283$
7. $6023 - 5794 = 229$
8. $7475 - 621 = 6854$

Frog or column subtraction? (hot)

1. $9124 - 8967 = 157$
2. $5235 - 4879 = 356$
3. $6383 - 526 = 5857$
4. $8342 - 578 = 7764$
5. $8250 - 6789 = 1461$
6. $6135 - 456 = 5679$
7. $6058 - 5345 = 713$
8. $5224 - 461 = 4763$

A Bit Stuck? Frog's epic jumps

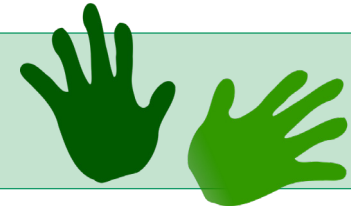
Work in pairs

What to do:

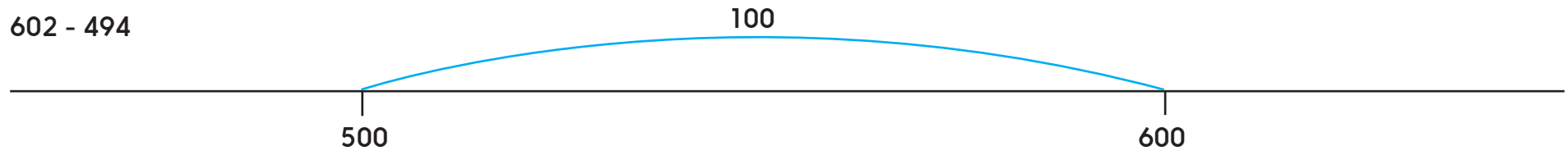
Use Frog on the number lines to work out the answers to the subtractions. BUT, before you do, discuss which you think will have the biggest answer and which you think will have the smallest answer. Why do you think that?

Things you will need:

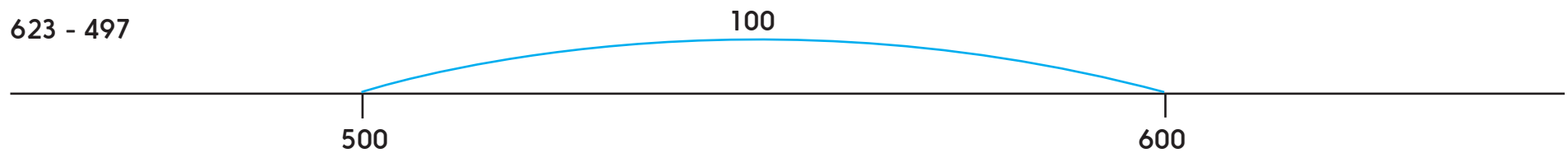
- A pencil



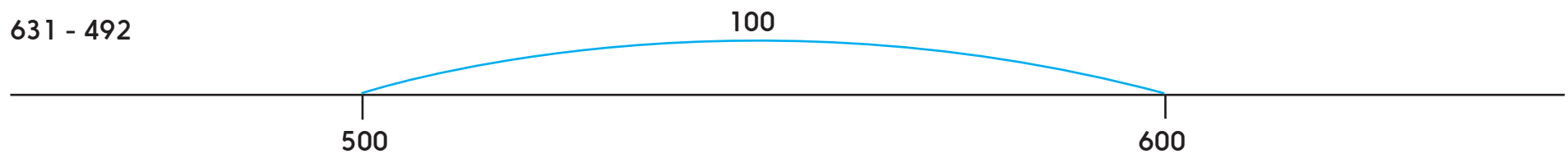
$602 - 494$



$623 - 497$



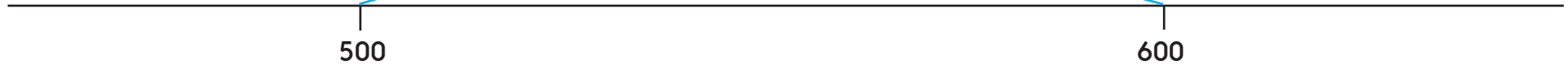
$631 - 492$



A Bit Stuck? Frog's epic jumps

$605 - 488$

100



$603 - 476$

100



$614 - 485$

100



S-t-r-e-t-c-h:

Choose two subtractions to check using addition.

Learning outcomes:

- I can use counting up (Frog) to subtract 3-digit numbers either side of a gap of 100.
- I am beginning to use addition to check subtraction.

