## Week 10, Day 1

Use expanded column subtraction to subtract 3-digit numbers Each day covers one maths topic. It should take you about 1 hour or just a little more.

1. If possible, watch the PowerPoint presentation with a teacher or another grown-up.

OR start by carefully reading through the Learning Reminders.

$\qquad$
2. Tackle the questions on the Practice Sheet. There might be a choice of either Mild (easier) or Hot (harder)!
Check the answers.

3. Finding it tricky? That's OK... have a go with a grown-up at A Bit Stuck?

4. Think you've cracked it? Whizzed through the Practice Sheets? Have a go at the Investigation...

## Learning Reminders

Use expanded column subtraction to subtract 3-digit numbers.


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3. $\mathbf{8 0}$ is bigger than $\mathbf{2 0}$ so take 100 from 400 and add it to the 10s. Now subtract the 10s.

| 5. Finally recombine <br> 100,40 and 2. <br> $425-283=142$ |
| ---: |

## Practice Sheet Mild <br> Expanded column subtraction

Use expanded column subtraction to complete the questions below.
e.g. 463-127 5013

400 60 วु
$-\begin{array}{r}10020 \quad 7 \\ \hline 30030 \quad 6\end{array}$

$$
463-127=336
$$

$$
\begin{aligned}
& 963-428 \\
& 751-226 \\
& 824-552 \\
& 615-361 \\
& 793-437 \\
& 850-628
\end{aligned}
$$

## Practice Sheet Hot <br> Expanded column subtraction

Use expanded column subtraction:

$$
\begin{aligned}
& 963-428 \\
& 751-226 \\
& 824-552 \\
& 615-361 \\
& 793-437 \\
& 850-628 \\
& 628-465 \\
& 926-873
\end{aligned}
$$

## Challenge

Find two 3 -digit - 3 -digit subtractions where you will have to exchange between 100 s and 10 s and 10 s and 1 s .
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## Practice Sheet Answers

Expanded column subtraction (mild)
$963-428=535$
$751-226=525$
$824-552=272$
$615-361=254$
$793-437=356$
$850-628=222$

Expanded column subtraction (hot)
963-428 = 535
751-226 = 525
824-552=272
615-361 = 254
793-437 = 356
$850-628=222$
$628-465=163$
$926-873=53$

## A Bit Stuck?

## Coin subtractions

## You will need:

- $1 p$ and 10 p coins


## What to do:

- We want to find 62-38.

Let's use 10 p and 1 p coins to help us subtract!
Count out six 10p coins and two 1p coins:


We can't subtract 8 from 2, so exchange one $10 p$ for ten $1 p$ coins:
50
12


Take away eight $1 p$ coins and three 10p coins:


Now try these questions in the same way, using the coins to help:

1. 53-27
2. $41-18$
3. 72-39
4. 64-28
5. $52-37$

