## Subtract 2-digit numbers from 3-digit numbers crossing 10 or 100

Draw base 10 for the number 142 using squares for hundreds, rods for tens and circles for ones.

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Did you draw this?


$$
142-17=\text { ? }
$$

Let＇s use the chart to．．．．
Subtract 17 from 142

| Hundreds | Tens | Ones |
| :---: | :---: | :---: |
|  | 䀠䀠目 | E |

$$
142-17=?
$$

I Can we take 7 ones from 2 ones?
Subtract 17 from 142


$$
142-17=?
$$

I No What do we need to do?
Subtract 17 from 142


$$
142-17=?
$$

I We exchange a ten for 10 ones to make 12 ones. What do we do now?


$$
142-17=?
$$

I We can take 7 ones from 12 ones.
$12-7=$ ?

| Hundreds | Tens | Ones |
| :---: | :---: | :---: |
|  |  |  |

$$
142-17=?
$$

(I) $12-7=5$

What is the final answer?

| Hundreds | Tens | Ones |
| :---: | :---: | :---: |
|  |  |  |

$$
142-17=125
$$

(I) Did you get 125?

| Hundreds | Tens | Ones |
| :---: | :---: | :---: |
|  |  |  |

b) Complete the column subtraction.

|  |  | $\mathbf{H}$ | $\mathbf{T}$ | $\mathbf{O}$ |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  |  | 2 | 4 | 4 |  |
|  | - |  | 2 | 6 |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

b) Complete the column subtraction.

|  |  | $\mathbf{H}$ | $\mathbf{T}$ | $\mathbf{O}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 2 | $4^{3}$ | ${ }^{1} 4$ |  |
|  | - |  | 2 | 6 |  |
|  | 2 | 1 | 8 |  |  |
|  |  |  |  |  |  |

Did you notice we can't take 6 from 4 ?
Did you exchange a ten for ten ones?
Did you get the final answer?
2. Work out 314-71

| $H$ | $T$ | $O$ |
| :---: | :---: | :---: |
| $O$ | $O$ | $O$ |
| $O$ |  | $O$ |
|  |  |  |


|  |  | $\mathbf{H}$ | $\mathbf{T}$ | $\mathbf{O}$ |  |
| ---: | ---: | ---: | ---: | ---: | :--- |
|  |  | 3 | 1 | 4 |  |
|  | - |  | 7 | 1 |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

2. Work out 314-71


|  |  | $\mathbf{H}$ | $\mathbf{T}$ | $\mathbf{O}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\mathbf{3}^{2}$ | 1 | 1 | 4 |
|  | - |  | 7 | 1 |  |
|  |  | 2 | 4 | 3 |  |
|  |  |  |  |  |  |

Did you notice we can't take 7 from 1?
Did you exchange a hundred for 10 tens?
Did you get the final answer?
4) A film is shown 3 times in a day.

The table shows how many children watch each showing.

| Showing time | 11 am | 3 pm | 7 pm |
| :--- | :---: | :---: | :---: |
| Number of <br> children | 381 | 184 | 67 |

How many more children watch the 11 am showing than the 7 pm showing?

REMEMBER: To find the difference between two
 amounts we need to subtract the lower number from the greater number.

4 A film is shown 3 times in a day.
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How many more children watch the 11 am showing than the 7 pm showing?

Work out the column subtraction.


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How many more children watch the 11 am showing than the 7 pm showing?

5) b) Complete the column subtraction.

|  |  | $\mathbf{H}$ | $\mathbf{T}$ | $\mathbf{O}$ |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  |  | 2 | 1 | 3 |  |
|  | - |  | 2 | 6 |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

5 b) Complete the column subtraction.


Did you notice we need to exchange both tens and hundreds?

When we exchanged a ten for 10 ones, there were no tens left so we needed to exchange a hundred for 10 tens.

6 What mistakes have been made in these column subtractions?

b)


6 What mistakes have been made in these column subtractions?


It should be 6-8 so there
should be an exchange.

They have done $8-6=2$ by mistake.
b)


When they exchanged the
ten for 10 ones, they forgot
to make the 1 into 0.
$\qquad$

8 Work out the missing digits.
a)


8 Work out the missing digits.


Starting with the ones. Four subtract what number equals 5 ?
4- ? = 5
We can't do it so we need to exchange a ten for 10 ones.

8 Work out the missing digits.


8 Work out the missing digits.


8 Work out the missing digits.


What will go in this box?
What number subtract
zero equals 5 ?

8 Work out the missing digits.


Did you get 5?

