Subtracting - Columns

Learning Goal:

By the end of this lesson I should be able to SUBTRACT positive numbers using a Column Model, WITHOUT the use of a calculator (technology).

Feb 3-1:54 PM

When we are asked to find the DIFFERENCE of two numbers, we are being asked to SUBTRACT or take away one number from the other.

Difference -> Subtract -> Take Away

(Similar meaning)

Feb 3-2:02 PM

Find the SUM of 34 + 18 (review)

Carry Over Tens Row

Carry Over Ones Row

$$
\begin{array}{r}
3\,4 \\
1\,8 \\
+ \\
\hline
\end{array}
$$

HUNDREDS   TENS   ONES

Mar 3-9:51 AM

Find the difference of the following:

35 - 24

Column Model

Number Model

35 + (-24)

= 30 + 5 + (-20) + (-4)

= 30 + (-20) + 5 + (-4)

= 10 + 1

= 11

CARRY OVER TENS ROW

CARRY OVER ONES ROW

	3	5
−	2	4

HUNDREDS | TENS | ONES
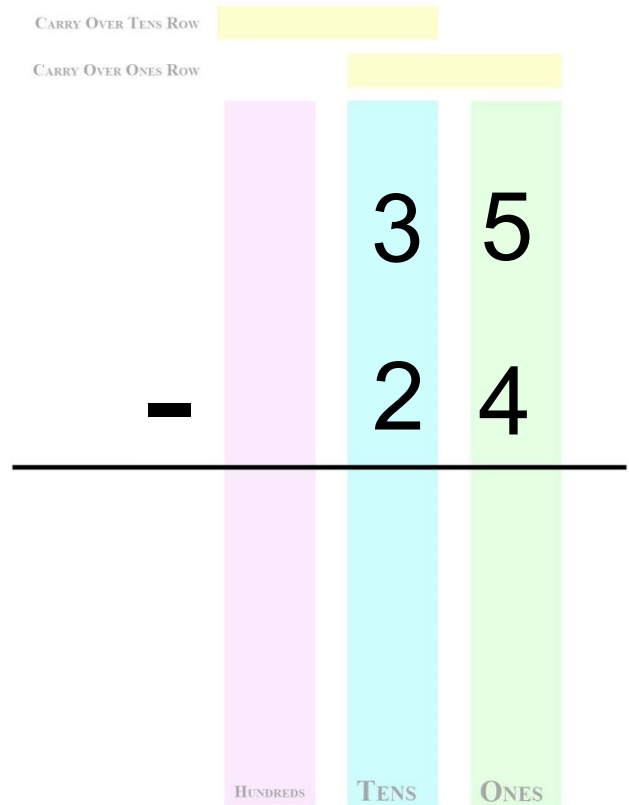
(single digits in each column only)

Find the difference of the following:

22 - 7

Number Model

$22 + (-7)$

$= 20 + 2 + (-7)$

$= 10 + 10 + 2 + (-7)$

$= 10 + 12 + (-7)$

$= 10 + 5$

$= 15$

Column Model

Carry Over Tens Row

Carry Over Ones Row

HUNDREDS	TENS	ONES
	2	2
−		7

(single digits in each column only)

Feb 3-2:04 PM
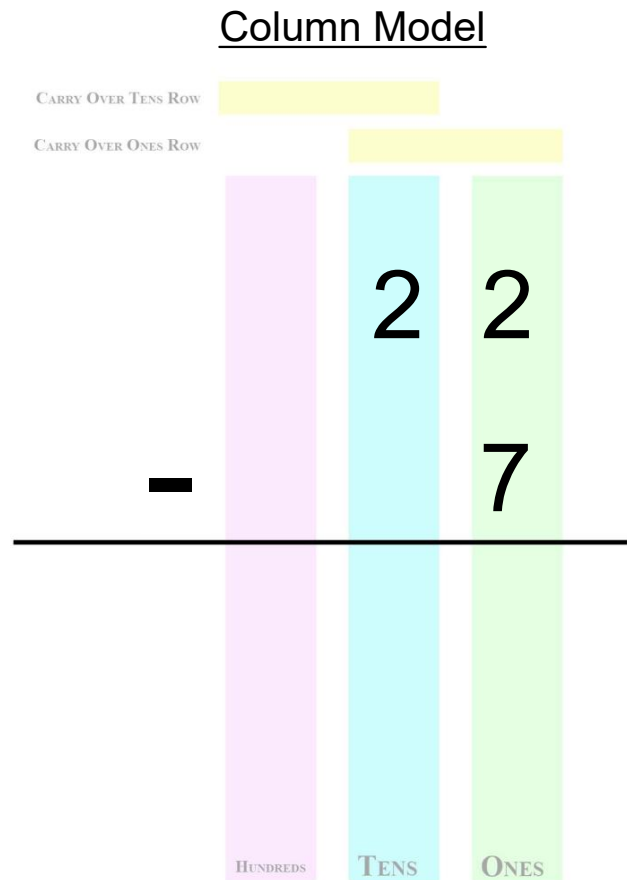
Find the difference of the following:

45 - 28

Column Model

Number Model

45 + (-28)

= 40 + 5 + (-20) + (-8)

= 40 + (-20) + 5 + (-8)
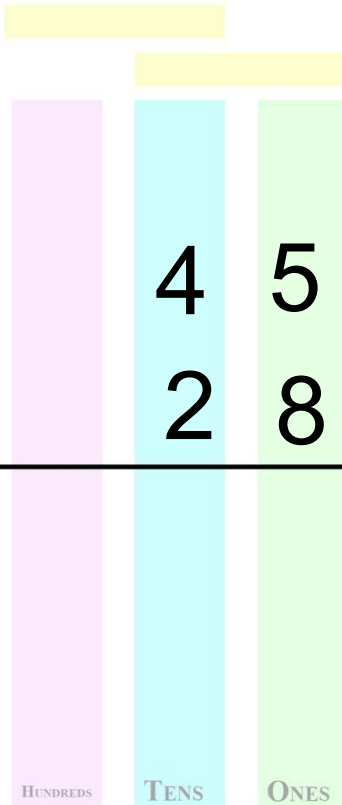
= 30 + (-20) + 15 + (-8)

= 10 + 15 + (-8)

= 10 + 7

= 17

CARRY OVER TENS ROW

CARRY OVER ONES ROW

$$\begin{array}{r} 4\ 5 \\ -\ 2\ 8 \\ \hline \end{array}$$

HUNDREDS   TENS   ONES

(single digits in each column only)

Find the difference of the following:

742 - 387

Number Model

742 + (-387)

= 700 + 40 + 2 + (-300) + (-80) + (-7)

= 700 + (-300) + 40 + (-80) + 2 + (-7)

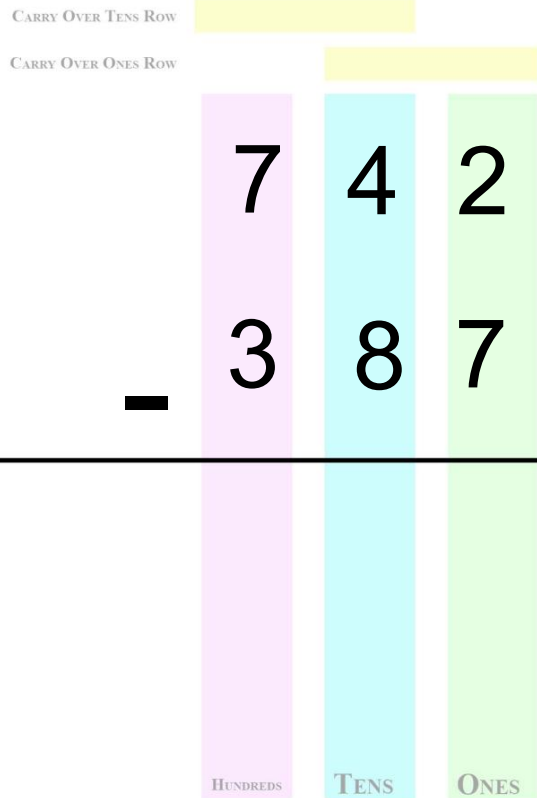= 600 + (-300) + 140 + (-80) + 2 + (-7)

= 600 + (-300) + 130 + (-80) + 12 + (-7)

= 300 + 50 + 5

= 355

Column Model

CARRY OVER TENS ROW

CARRY OVER ONES ROW

	7	4	2
−	3	8	7

HUNDREDS	TENS	ONES

(single digits in each column only)

Feb 3-2:04 PM

Press PAUSE on the video and try the following
Find the Difference for the following:

$$61$$
$$-\ 27$$

$$314$$
$$-\ 289$$

Feb 3-2:08 PM

Task 1.7

Feb 5-10:12 AM