

Mrs Fuller's

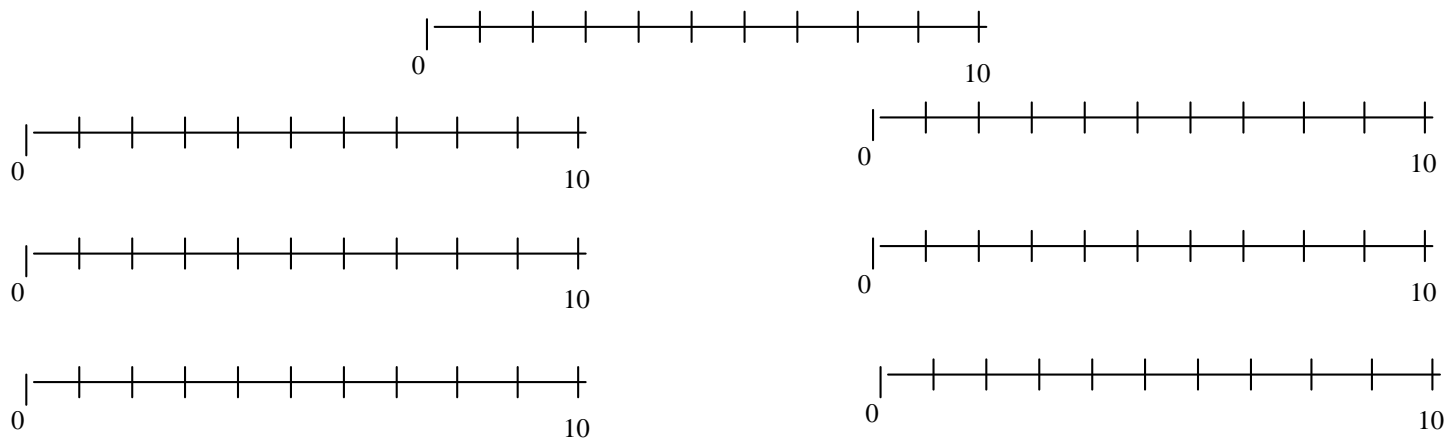


Subtraction Progression

Subtraction of units from units not crossing tens boundaries
 (subtracting two numbers that don't cross the tens boundary)

1. $\begin{array}{r} 5 \\ - 3 \\ \hline \end{array}$	2. $\begin{array}{r} 6 \\ - 2 \\ \hline \end{array}$	3. $\begin{array}{r} 4 \\ - 1 \\ \hline \end{array}$	4. $\begin{array}{r} 7 \\ - 2 \\ \hline \end{array}$	5. $\begin{array}{r} 8 \\ - 1 \\ \hline \end{array}$	6. $\begin{array}{r} 9 \\ - 0 \\ \hline \end{array}$	7. $\begin{array}{r} 3 \\ - 3 \\ \hline \end{array}$
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Use the numberlines to help you calculate the answers



Subtraction TU.th from TU.th crossing tenth and hundredths boundaries
(subtracting two numbers where the tenths cross the units boundaries)

$$\begin{array}{r}
 1. \quad 42.54 \\
 - 23.86 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 2. \quad 32.62 \\
 - 17.95 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 3. \quad 44.54 \\
 - 26.87 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 4. \quad 55.73 \\
 - 39.96 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 5. \quad 76.65 \\
 - 27.79 \\
 \hline
 \end{array}$$

STANDARD WRITTEN METHOD

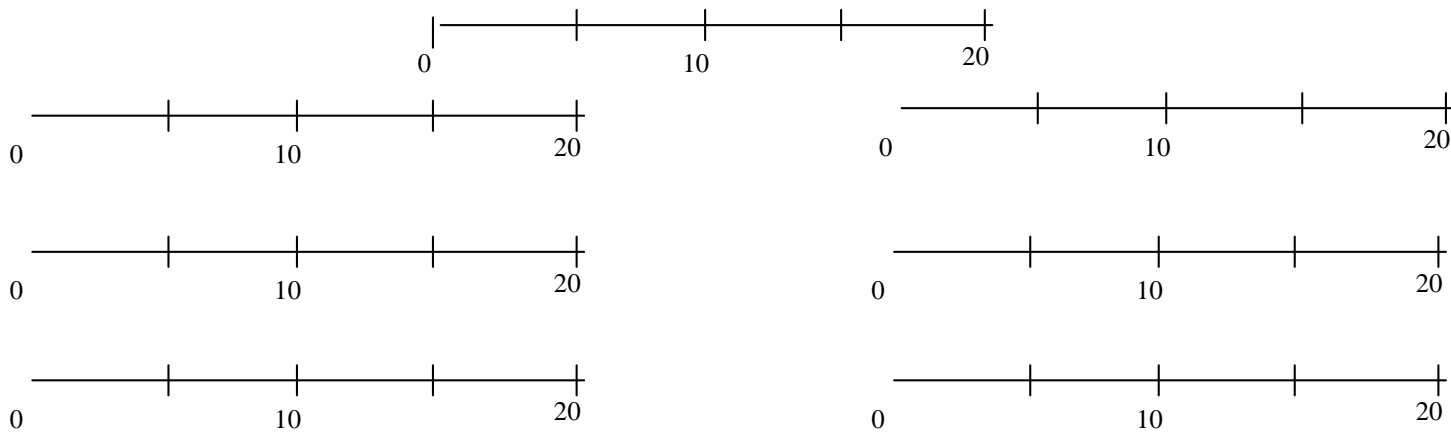
- Subtract the hundredths from the hundredths column, if can't, borrow from the tenths column
- Subtract the tenths from the tenths column, if you can't, borrow a unit from the units column to make a "decimal" number
 - Subtract the units from the units, if you can't, borrow from the tens column to make a "teen" number
 - Subtract the tens from the tens

$$\begin{array}{r}
 6. \quad 43.34 \\
 - 11.79 \\
 \hline
 \end{array}
 \longrightarrow
 \begin{array}{r}
 \approx \\
 43.\overset{1}{\cancel{3}}4 \\
 - 11.79 \\
 \hline
 .5
 \end{array}
 \longrightarrow
 \begin{array}{r}
 \approx 12 \\
 4\overset{1}{\cancel{3}}.\overset{1}{\cancel{3}}4 \\
 - 11.79 \\
 \hline
 11.55
 \end{array}$$

Subtraction U from TU not crossing tens boundaries
(subtracting two numbers that don't cross the tens boundary)

1. $\begin{array}{r} 14 \\ - \underline{3} \\ \hline \end{array}$	2. $\begin{array}{r} 17 \\ - \underline{5} \\ \hline \end{array}$	3. $\begin{array}{r} 18 \\ - \underline{6} \\ \hline \end{array}$	4. $\begin{array}{r} 17 \\ - \underline{2} \\ \hline \end{array}$	5. $\begin{array}{r} 19 \\ - \underline{4} \\ \hline \end{array}$	6. $\begin{array}{r} 15 \\ - \underline{4} \\ \hline \end{array}$	7. $\begin{array}{r} 17 \\ - \underline{6} \\ \hline \end{array}$
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Use the numberlines to help you calculate the answers



Subtraction TU.t from TU.t crossing tenth and units boundaries
(subtracting two numbers where the tenths and units cross boundaries)

1.	$\begin{array}{r} 42.5 \\ - 23.8 \\ \hline \hline \end{array}$	2.	$\begin{array}{r} 32.6 \\ - 17.9 \\ \hline \hline \end{array}$	3.	$\begin{array}{r} 44.5 \\ - 26.8 \\ \hline \hline \end{array}$	4.	$\begin{array}{r} 55.7 \\ - 39.9 \\ \hline \hline \end{array}$	5.	$\begin{array}{r} 76.6 \\ - 27.7 \\ \hline \hline \end{array}$
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STANDARD WRITTEN METHOD

- Subtract the tenths from the tenths column, if you can't, borrow a unit from the units column to make a "decimal" number
 - Subtract the units from the units, if you can't, borrow from the tens column to make a "teen" number
 - Subtract the tens from the tens

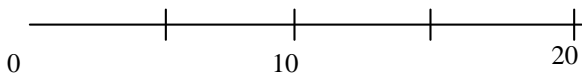
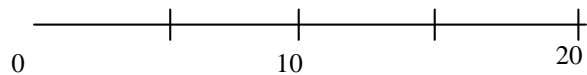
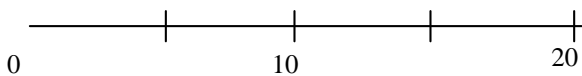
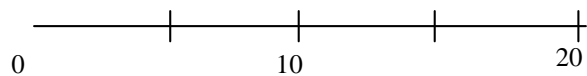
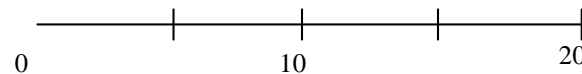
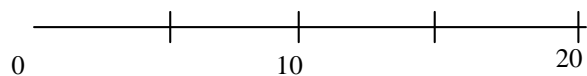
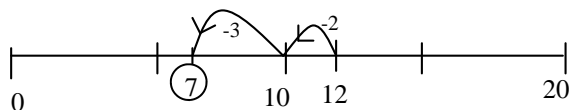
6.	$\begin{array}{r} 43.3 \\ - 16.7 \\ \hline \hline \end{array}$	→	$\begin{array}{r} \overset{\approx}{4} \\ \cancel{4}^1 3.3 \\ - 16.7 \\ \hline \quad .5 \end{array}$	→	$\begin{array}{r} 3^1 \overset{1}{2} \\ \cancel{4}^1 3.3 \\ - 16.7 \\ \hline \quad 26.5 \end{array}$
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Subtraction U from TU crossing tens boundaries
(subtracting two numbers where the units cross the tens boundary SPLITTING)

1. $\begin{array}{r} 14 \\ - \quad 8 \\ \hline \end{array}$	2. $\begin{array}{r} 12 \\ - \quad 5 \\ \hline \end{array}$	3. $\begin{array}{r} 11 \\ - \quad 4 \\ \hline \end{array}$	4. $\begin{array}{r} 17 \\ - \quad 9 \\ \hline \end{array}$	5. $\begin{array}{r} 13 \\ - \quad 4 \\ \hline \end{array}$	6. $\begin{array}{r} 15 \\ - \quad 8 \\ \hline \end{array}$	7. $\begin{array}{r} 16 \\ - \quad 9 \\ \hline \end{array}$
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Use the numberlines to help you calculate the answers. Split the number you are subtracting into useful parts.

E.g. $12 - 5 = (12 - 2 - 3) = (10 - 3) = 7$



Subtraction TU.t from TU.t crossing tenth boundaries
(subtracting two numbers where the tenths cross the units boundaries)

1.	$\begin{array}{r} 46.5 \\ - 24.8 \\ \hline \end{array}$	2.	$\begin{array}{r} 39.6 \\ - 18.9 \\ \hline \end{array}$	3.	$\begin{array}{r} 48.5 \\ - 23.8 \\ \hline \end{array}$	4.	$\begin{array}{r} 57.7 \\ - 34.9 \\ \hline \end{array}$	5.	$\begin{array}{r} 79.6 \\ - 23.7 \\ \hline \end{array}$
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STANDARD WRITTEN METHOD

- Subtract the tenths from the tenths column, if you can't, borrow a unit from the units column to make a "decimal" number
 - Subtract the units from the units, if you can't, borrow from the tens column to make a "teen" number
 - Subtract the tens from the tens

6.	$\begin{array}{r} 43.3 \\ - 11.7 \\ \hline \end{array}$	→	$\begin{array}{r} \overset{2}{4} \overset{1}{3}.3 \\ - 11.7 \\ \hline .5 \end{array}$	→	$\begin{array}{r} \overset{2}{4} \overset{1}{3}.3 \\ - 11.7 \\ \hline 31.5 \end{array}$
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Subtraction TU from TU not crossing tens boundaries
(subtracting two numbers where the units don't cross the tens boundary)

PARTITIONING

1.	2.	3.	4.	5.
$\begin{array}{r} 25 \\ - 13 \\ \hline \end{array}$	$\begin{array}{r} 26 \\ - 12 \\ \hline \end{array}$	$\begin{array}{r} 45 \\ - 21 \\ \hline \end{array}$	$\begin{array}{r} 57 \\ - 23 \\ \hline \end{array}$	$\begin{array}{r} 39 \\ - 16 \\ \hline \end{array}$
partition	partition	partition	partition	partition
$\begin{array}{r} (20 + 5) \\ - (10 + 3) \\ \hline \end{array}$	$\begin{array}{r} (20 + 6) \\ - (10 + 2) \\ \hline \end{array}$	$\begin{array}{r} (40 + 5) \\ - (20 + 1) \\ \hline \end{array}$	$\begin{array}{r} (\quad + \quad) \\ - (\quad + \quad) \\ \hline \end{array}$	$\begin{array}{r} (\quad + \quad) \\ - (\quad + \quad) \\ \hline \end{array}$
___ + ___ = <input style="width: 30px; height: 20px;" type="text"/>	___ + ___ = <input style="width: 30px; height: 20px;" type="text"/>	___ + ___ = <input style="width: 30px; height: 20px;" type="text"/>	___ + ___ = <input style="width: 30px; height: 20px;" type="text"/>	___ + ___ = <input style="width: 30px; height: 20px;" type="text"/>

Use the expanded column method to help you

- Partition the first number up into tens and units
- Partition the second number up into tens and units
- Subtract the units from the units and write in the answer
- Subtract the tens from the tens and write in the answer
- Finally add the tens and units back together and write your answer in the box

6.	$\begin{array}{r} 83 \\ - 32 \\ \hline \end{array}$	$\xrightarrow{\text{partition}}$	$\begin{array}{r} (80+3) \\ - (30+2) \\ \hline (50+1) = \end{array}$	<input style="width: 30px; height: 20px; border: 1px solid black;" type="text" value="51"/>
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Subtraction TU.t from TU.t not crossing any boundaries
 (subtracting two numbers where the tenths, units and tens cross no boundaries)

1.	$\begin{array}{r} 48.9 \\ - 23.8 \\ \hline \end{array}$	2.	$\begin{array}{r} 39.7 \\ - 17.9 \\ \hline \end{array}$	3.	$\begin{array}{r} 48.9 \\ - 26.8 \\ \hline \end{array}$	4.	$\begin{array}{r} 59.9 \\ - 37.7 \\ \hline \end{array}$	5.	$\begin{array}{r} 76.6 \\ - 23.4 \\ \hline \end{array}$
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STANDARD WRITTEN METHOD

- Subtract the tenths from the tenths column
 - Subtract the units from the units
 - Subtract the tens from the tens

6.	$\begin{array}{r} 43.3 \\ - 22.1 \\ \hline \end{array}$	_____	$\begin{array}{r} 433 \\ - 22.1 \\ \hline 21.2 \end{array}$
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Subtraction HTU from HTU crossing units boundaries
(subtracting two numbers where the units cross the tens boundary)
PARTITIONING AND BORROWING)

1.	425 <u> </u> - <u> </u> 218 <u> </u>	2.	326 <u> </u> - <u> </u> 119 <u> </u>	3.	445 <u> </u> - <u> </u> 228 <u> </u>	4.	357 <u> </u> - <u> </u> 129 <u> </u>	5.	866 <u> </u> - <u> </u> 337 <u> </u>
	partition		partition		partition		partition		partition
	(400+20+5)		(300+20+6)		(400+40+5)		(+ +)		(+ +)
	- (200+10+8)		- (100+10+9)		- (200+20+8)		- (+ +)		- (+ +)
	<u> </u> + <u> </u> + <u> </u> =		<u> </u> + <u> </u> + <u> </u> =		<u> </u> + <u> </u> + <u> </u> =		<u> </u> + <u> </u> + <u> </u> =		<u> </u> + <u> </u> + <u> </u> =

Use the expanded column method to help you

- Partition as before
- Subtract the units from the units, if you can't, borrow a ten from the tens column to make a "teen" number then subtract the unit, write in the answer in the units column
 - Subtract the tens from the tens and write in the answer
 - Finally add the answer back together

6.	483 <u> </u> - <u> </u> 237 <u> </u>	partition →	(400+80+3) - (200+30+7) <u> </u> =	borrow →	⁷⁰ (400+ 80 +3) - (200+ 30+7) <u> </u> = 246
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Subtraction HTU from HTU crossing tens and units boundaries
(subtracting two numbers where you need to borrow from tens and hundreds
PARTITIONING AND BORROWING)

1. $\begin{array}{r} 425 \\ - 238 \\ \hline \end{array}$ partition $(400+20+5)$ $-(200+30+8)$ $\underline{\quad} + \underline{\quad} + \underline{\quad} =$	2. $\begin{array}{r} 326 \\ - 179 \\ \hline \end{array}$ partition $(300+20+6)$ $-(100+70+9)$ $\underline{\quad} + \underline{\quad} + \underline{\quad} =$	3. $\begin{array}{r} 445 \\ - 268 \\ \hline \end{array}$ partition $(400+40+5)$ $-(200+60+8)$ $\underline{\quad} + \underline{\quad} + \underline{\quad} =$	4. $\begin{array}{r} 557 \\ - 399 \\ \hline \end{array}$ partition $(\quad + \quad + \quad)$ $-(\quad + \quad + \quad)$ $\underline{\quad} + \underline{\quad} + \underline{\quad} =$	5. $\begin{array}{r} 766 \\ - 277 \\ \hline \end{array}$ partition $(\quad + \quad + \quad)$ $-(\quad + \quad + \quad)$ $\underline{\quad} + \underline{\quad} + \underline{\quad} =$
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Use the expanded column method to help you

- Partition as before
- Subtract the units from the units, if you can't, borrow a ten from the tens column to make a "teen" number then subtract
 - Subtract the tens from the tens, if you can't, borrow a hundred from the hundreds column then subtract
 - Finally add the answer together

6. $\begin{array}{r} 433 \\ - 287 \\ \hline \end{array}$	partition →	$\begin{array}{r} (400+30+3) \\ - (200+80+7) \\ \hline (\quad) = \end{array}$	borrow →	$\begin{array}{r} 20 \\ (400+\cancel{30}+3) \\ - (200+80+7) \\ \hline (100+40+6) = 146 \end{array}$
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Subtraction HTU from HTU crossing tens and units boundaries
(subtracting two numbers where the units and tens cross the boundaries
STANDARD WRITTEN METHOD)

1.	$\begin{array}{r} 425 \\ - 238 \\ \hline \end{array}$	2.	$\begin{array}{r} 326 \\ - 179 \\ \hline \end{array}$	3.	$\begin{array}{r} 445 \\ - 268 \\ \hline \end{array}$	4.	$\begin{array}{r} 557 \\ - 399 \\ \hline \end{array}$	5.	$\begin{array}{r} 766 \\ - 277 \\ \hline \end{array}$
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STANDARD WRITTEN METHOD

- Subtract the units from the units, if you can't, borrow a ten from the tens column to make a "teen" number then subtract
 - Subtract the tens from the tens, if you can't, borrow a hundred from the hundreds column then subtract
 - Finally add the answer together

6.	$\begin{array}{r} 433 \\ - 287 \\ \hline \end{array}$	$\xrightarrow{\text{borrow 10s}}$	$\begin{array}{r} \overset{2}{\cancel{4}}33 \\ - 287 \\ \hline 6 \end{array}$	\longrightarrow	$\begin{array}{r} \overset{3}{\cancel{4}}\overset{12}{\cancel{3}}3 \\ - 287 \\ \hline 146 \end{array}$
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Subtraction TU from HTU crossing units AND tens boundaries
(subtracting two numbers where you need to borrow from tens and hundreds
PARTITIONING AND BORROWING)

1.	425 - 38	2.	326 - 79	3.	445 - 68	4.	557 - 98	5.	766 - 77
	partition		partition		partition		partition		partition
	(400+20+5)		(300+20+6)		(400+40+5)		(+ +)		(+ +)
	- (30+8)		- (70+9)		- (60+8)		- (+)		- (+)
	_____+__=		_____+__=		_____+__=		_____+__=		_____+__=

Use the expanded column method to help you

- Partition as before
- Subtract the units from the units, if you can't, borrow a ten from the tens column to make a "teen" number then subtract
 - Subtract the tens from the tens, if you can't, borrow a hundred from the hundreds column then subtract
 - Finally add the answer together

6.	433 - 87	partition →	(400+30+3) - (80+7)	borrow →	³⁰⁰ ¹²⁰ (400+30+3) - (80+7) (300+40+6) = 346
	_____		() =		