
2) a) $8 \times 1=8$
b) $8 \times 10=80$
c) $8 \times 100=800$

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


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


| $H$ | T | 0 |
| :---: | :---: | :---: |
| $x x x x x x x x$ |  |  |
|  |  |  |

d) $43 \times 1=43$

| Th | H | T | O |
| :---: | :---: | :---: | :---: |
|  |  | $x x x x$ | $x x x$ |
|  |  |  |  |

e) $43 \times 10=430$

| Th | H | T | O |
| :---: | :---: | :---: | :---: |
|  | $x x x x$ | $x x x$ |  |
|  |  |  |  |

f) $43 \times 100=4300$

| Th | H | T | O |
| :---: | :---: | :---: | :---: |
| $x x x x$ | $x x x$ |  |  |
|  |  |  |  |

g) $81 \times 1=81$

| Th | H | T | O |
| :--- | :---: | :---: | :---: |
|  |  | $x x x x$ <br> $x x x x$ | $x$ |

h) $81 \times 10=810$

| Th | H | T | O |
| :---: | :---: | :---: | :---: |
|  | $x x x x$ <br> $x x x x$ | $x$ |  |

i) $81 \times 100=8100$

| Th | H | T | O |
| :---: | :--- | :--- | :--- |
| $x x x x$ | $x$ |  |  |
| $x x x x$ |  |  |  |

1) 


2) a) Always. When multiplying by 100 a number will always become hundred times greater than the number you started with. For example, $3 \times 100=300$.
b) Never. If a digit has moved 3 places left on a place value chart, it will have been multiplied by 1000. When multiplying by 100, digits only move two places left on the place value chart.
c) Sometimes. If you are multiplying a one-digit whole number by 100, this is not true. However, if you are multiplying a number with more than one digit, there is a chance that the hundreds will have a place holder in this column. For example, $20 \times 100=2000$.

1) $96 \times 100=9600$
$87 \times 100=8700$
$78 \times 100=7800$
$69 \times 100=6900$
2) The ones digit could be a $0,2,4,6$ or 8 . In total, there are 7 possible combinations and answers.

| $14 \times 100=1400$ | $70 \times 100=7000$ |
| :---: | :---: |
| $28 \times 100=2800$ | $84 \times 100=8400$ |
| $42 \times 100=4200$ | $98 \times 100=9800$ |
| $56 \times 100=5600$ |  |

3) The missing side is 11 m .
$46-12-12=22$
$22 \div 2=11$
$11 \mathrm{~m}=1100 \mathrm{~cm}$
