## Arithmetic

Skill-Builder \# W-1
Dividing Whole Numbers
When dividing a whole number (the dividend) by another whole number (the divisor) using the process of long division, apply the D-M-S-B (무ide-ㅡㅡultiply-Subtract-Bring Down) process working from left to right.

## Examples

1. $341 \div 8$

Solution:

| $8 \longdiv { 4 2 }$ | The D-M-S-B process was done twice: <br> 841 <br> $-\underline{32}$ <br> A. |
| ---: | :--- |
| Divide 34 by 8 to get 4. <br> Multiply 4 by 8 to get 32. <br> Subtract 32 from 34 to get 2. <br> Bring down 1. |  |
|  | B.Divide 21 by 8 to get 2. <br> Multiply 2 by 8 to get 16. <br> Subtract 16 from 21 to get 5. <br> There is nothing to bring down so STOP. |

Thus, the quotient is 42 and the remainder is 5 and the answer is 42 R 5 .
2. $36,072 \div 17$

Solution:

| 2,004 |  |  |
| :---: | :---: | :---: |
| $1 8 \longdiv { 3 6 , 0 7 2 }$ |  |  |
| - 36 |  | 2,004 |
| 00 |  | 18 $3 6 \longdiv { 3 6 , 0 7 2 }$ |
| - 0 |  | - 36 |
| 7 | can be shortened to | 0072 |
| - 0 |  | - 72 |
| 72 |  | 0 |
| - 72 |  |  |
| 0 |  |  |

See if you can follow the D-M-S-B process in the above. Thus, the division is exact and the answer is 2,004 .

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Divide. Write your answer as quotient $\mathbf{R}$ remainder (if any).

1. $519 \div 4$
2. $873 \div 21$
3. $4,165 \div 35$
4. $22,982 \div 57$

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Answers

1. 129 R 3
2. 41 R 12
3. 119
4. 403 R 11

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