# Informal Division

 15

15 ÷ 5 = 3 -5

 10

## Draw a number line vertically

* Put the number to be divided at the top of the line
* Subtract the divisor repeatedly in steps until you reach 0
* Count the number of steps

 -5

 5

 -5

 0

# Expanded Division no Remainders

96 ÷ 4 = 24

# E 100 ÷ 4 = 25

# 24

|  |  |  |
| --- | --- | --- |
| 4 | 96 |  |
|  | 40 | 10 x 4 |
|  | 56 |  |
|  | 40 | 10 x 4 |
|  | 16 |  |
|  | 16 | 4 x 4 |
|  | 0 |  |

#

1 x 4 = 4

2 x 4 = 8

3 x 4 = 12

4 x 4 = 16

5 x 4 = 20

10 x 4 = 40

* Estimate using rounding
* Record the calculation
* List key facts
* Subtract chunks of the divisor until 0 is reached
* Add up the total number of chunks taken away and record

# Expanded Division with Remainders

196 ÷ 6 = 32 r 4

# E 200 ÷ 5 = 40

#  32 r 4

1 x 6 = 6

2 x 6 = 12

3 x 6 = 18

4 x 6 = 24

5 x 6 = 30

10 x 6 = 60

20 x 6 = 120

|  |  |  |
| --- | --- | --- |
| 6 |  196 |  |
|  |  120 | 20 |
|  |  76 |  |
|  |  60 | 10 |
|  |  16 |  |
|  |  12 | 2 |
|  |  4 |  |

1 x 6 = 6

2 x 6 = 12

3 x 6 = 18

4 x 6 = 24

5 x 6 = 30

10 x 6 = 60

20 x 6 = 120

1 x 4 = 4

2 x 4 = 8

3 x 4 = 12

4 x 4 = 16

5 x 4 = 20

10 x 4 = 40

* Estimate using rounding
* Record the calculation
* List key facts
* Subtract chunks of the divisor until 0 is reached, or no more can be taken away
* Add up total number of chunks taken away and record
* Record any left over as the remainder