

## Part 3-4 → Decimal Division

Rule 1: Count and adjust decimal places

Rule 2: Make a list of multiples to help

Rule 3: Run the algorithm

Example:  $10.472 \div 0.28 =$

$$\begin{array}{r} 0.28 \overline{) 10.472} \\ \text{Two jumps} \quad \text{Two jumps} \end{array}$$

$$\begin{array}{r} \phantom{0.} \overline{) 1047.2} \\ 28 \end{array}$$

↑  
That's where decimal goes

$$28 \overline{) 1047.2}$$

we want to know how many times 28 goes into 104. Lets make a list of multiples!

- 28 (x1)
- +28

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- 56 (x2)
- +28

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- 84 (x3)
- +28

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- 112 (x4)
- +28

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- 140 (x5)
- +28

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- 168 (x6)
- +28

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- 196 (x7)
- +28

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- 224 (x8)
- +28

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- 252 (x9)
- +28

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- 280 (x10)

$$37.4$$

$$28 \overline{) 1047.2}$$

$$\begin{array}{r} -84 \\ \hline 207 \\ 196 \\ \hline 112 \\ 112 \\ \hline 0 \end{array}$$

↗  
subtract 84 from 104 for 20 then bring down 7

↗  
subtract 196 from 207 for 11 then bring down 2

28 goes into 104 3 times for 84

28 goes into 207 7 times for 196

28 goes into 112 4 times exactly

**Answer: 37.4**

↗ we know 280 is correct because  $28 \times 10$  is 280